



MTCON
NECT
IVITY

ISSUE **2022-01**



MTCONNECTIVITY

PRODUCT CATALOG



MTCONNECTIVITY
MAKE THE CHANGE

POWER UP AND CONNECT YOUR PCB WITH MTCONNECTIVITY:

- Power elements from 10 A to 1000 A (and more)
- Fuse holders and relay sockets
- PCB connectors (wire2board)

**PARTS IN
PRESS-FIT &
SOLDERABLE
VERSIONS**



INHALT
MAKE THE CHANGE

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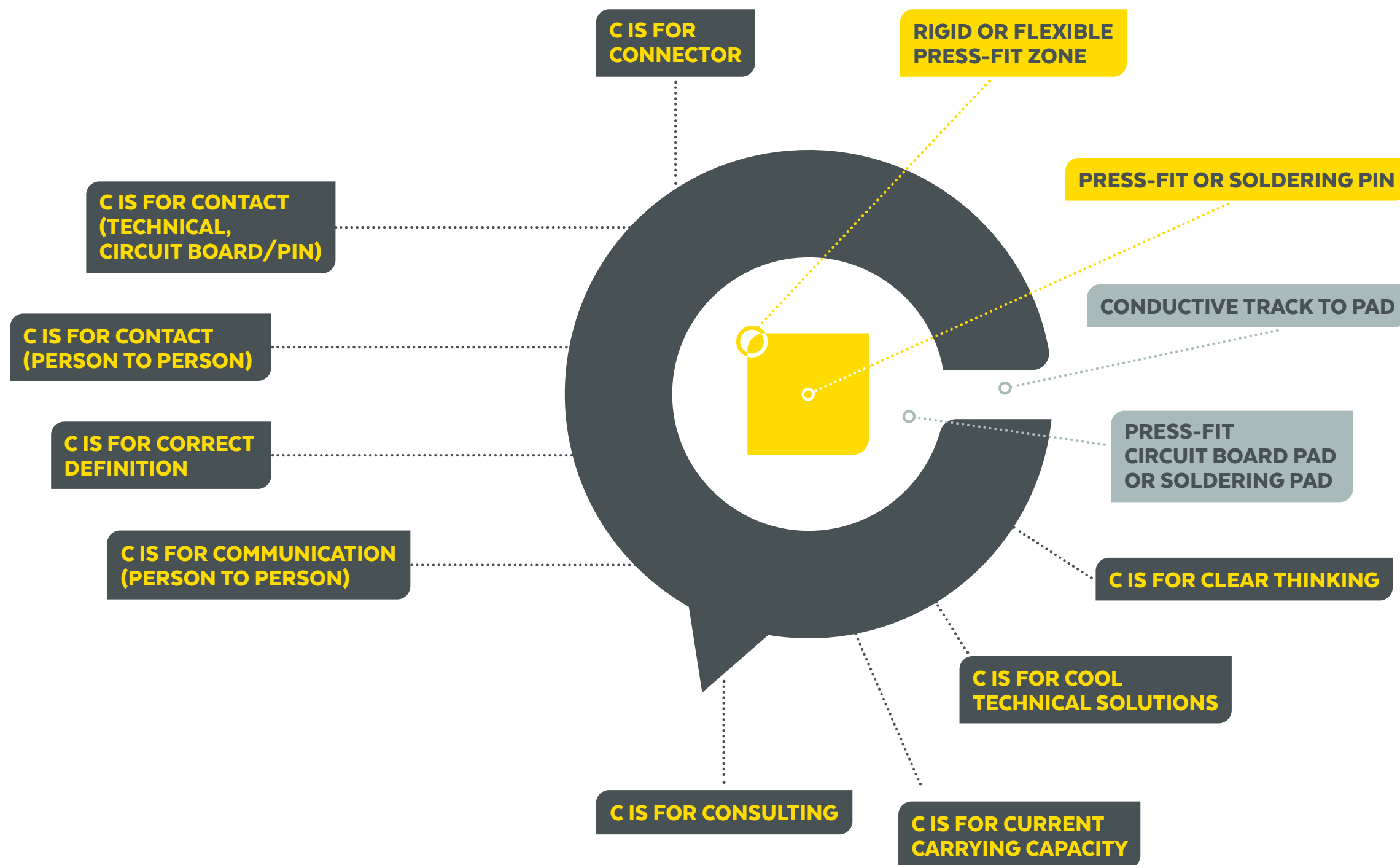


MTCONNECTIVITY MAKE THE CHANGE

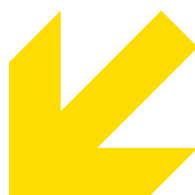
COMBINED POWER IN ALL AREAS

»Great things start small.« This is especially true for press-fit products. We pay close attention to even the smallest detail, when it comes to generating ultimate results for your application, especially in terms of reliability and durability.

Whatever you need: MTCON will support you in making your application work: We provide professional, customized and flexible services, even beyond pure press-fit technology issues. See what we can do for you:

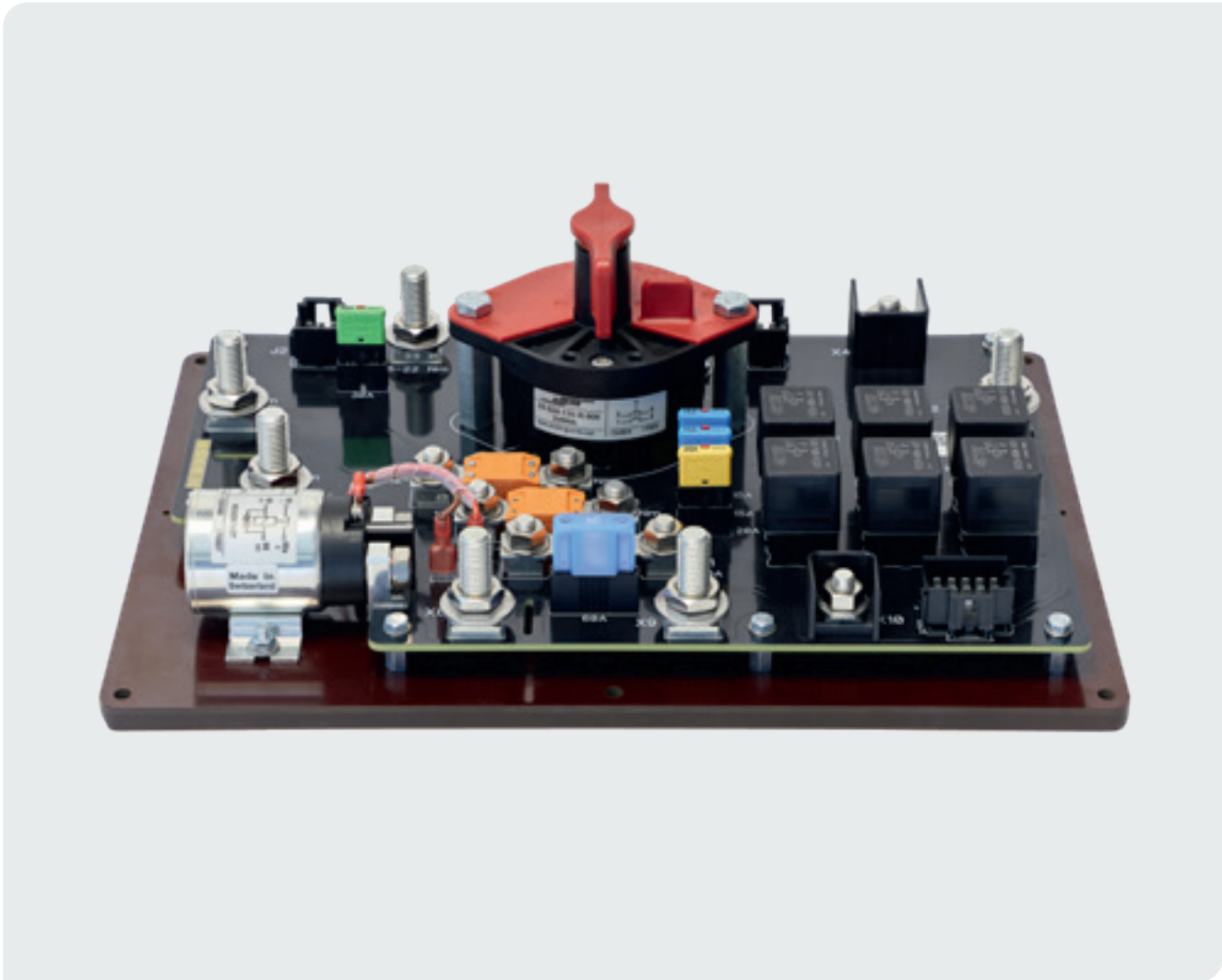


DISCOVER
OUR
PRODUCTS





APPLICATION EXAMPLES
CONSTRUCTION MACHINES (COLD MILLING MACHINE)



**EVEN IN EXTREMELY
DEMANDING APPLICATIONS**

Here we present our product lines in different applications.

This assembly is a circuit board based central electric system equipped with MTCO elements.



POWER TOWER

Large selection of power connector elements in various constructions (external and internal thread M3 - M12, mates with Radsok®).

Picture: Power Tower M10

➤ Page 34 - 35



POWER PROTECTOR

Power element contact protection to prevent short-circuits caused by touching cable lugs connected to juxtaposed power elements.

Picture: Power Protector for Power Tower M6 & M8

➤ Page 64 - 65



POWER EDGE

Two angled power elements at defined distance for mechanical and electric connection of high current relays to the circuit board.

Picture: Power Edge M8

➤ Page 44 - 47



FUSE HOLDERS

We offer matching fuse holders for all standard fuses (mini, ATO, maxi).

Picture: Maxi fuse holder

➤ Page 226 - 227



PCB CONNECTORS

Large selection of press-fit connectors (wire2board) for combination with all leading standard connectors.

Picture: JPT 3-rowed, 15-pin

➤ Page 254 - 255

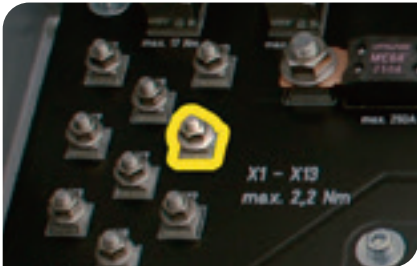


APPLICATION EXAMPLES
ELECTRIC VEHICLES
(HYDROGEN FUEL CELL GARBAGE TRUCK)



SILENT, EMISSION-FREE, INNOVATIVE

The new Faun hydrogen fuel cell garbage truck prototypes (Blue Power) for even cleaner, more silent and more environmentally friendly garbage collection. The central electric assembly with current sensing is equipped with our MTCO high performance components.



POWER TOWER

For high current circuit board connections in various constructions. Power elements from 10 to 1000 A.

Picture: Power Tower M5

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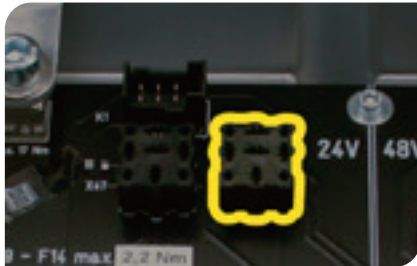


FUSE HOLDERS

Highest reliability even for extremely demanding conditions, frequent temperature changes, and strong vibrations. For 12 V, 24 V, and 48 V.

Picture: ATO fuse holder

➤ Page 224 - 225



RELAY SOCKETS

MTCO relays sockets create a secure interface between standard relays and circuit board. We offer a large variety of different constructions and variations.

Picture: Relay socket 9-pin

➤ Page 240 - 241



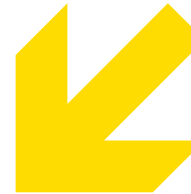
STECKVERBINDER

The MTCO JPT connector equipped with 2.8 mm blade contacts features maximum current constancy of approx. 15 A. Our MTCO 3-rowed JPT connectors can be mated with all standard connector systems.

Picture: JPT 3-rowed

➤ Page 254 - 255

QUESTIONS?
WE ARE ALWAYS
HAPPY TO HELP!





PACKAGING SYSTEMS FOR THE TRANSPORT

MTCON STANDARD-KLT

The practical small load carriers (KLT) made of polypropylene are particularly suitable for manual handling at the production line, automatic part removal from the containers and conversion to empty piles.

- Non-tilting stand, easy stacking
- Standardized sizes, optimized for Euro palets
- According to VDA standard
- Return or buy



MTCON SET-BOX

The set box will transport power elements with just one hand and protect the components, especially the pins, from damage due to impact and vibration.

- Can be combined with MTCON standard-KLT
- Re-usable
- Item specific with safety adhesive and quality seal
- Especially suitable for product processing directly at the press-fit machine



MTCON SAFE-PIN

The safe pins are a proprietary development and perfectly tailored to work with our power elements. They prevent the fine pins from being damaged during storage or transport.

- Different sizes
- Can be combined with all MTCON power elements
- Best possible protection when combined with our reusable packaging



VACUUM PACKAGING

Vacuum packaging features essential benefits, e.g. improved protection, storage, transport of packaged products, including maximum scratch and oxidation protection of the SMD coating. Vacuumization enables space-saving packaging of bulk goods. Packaging is ESD protected.

- Over 6 months durability
- Elektrostatic protection, maximum transport protection
- On demand also available for small and large batches



BLISTER TAPES

Blister tapes are precise feeding systems. Keep sensitive components like electronic and SMD components clean, dry and perfectly protected in customized packages. A packaging system consists of a blister tape, a matching reel, and a cover sheet. All individual components are customized and combined to customer requirements by our experts.

- Integration into automated production
- Precise positioning in the production process
- Clean, easy storage, automated assembly and processing



REELS

Reels are perfect for reusable transport systems. They are available in various widths and diameters for different feeder systems. The reels are usually made from antistatic polystyrol, depending on the applications. Reels are packaged in sturdy cardboard boxes.

- Matched to standard reel sizes
- Transport-proof
- Dirt repellent
- Stackable
- 100 % recyclable





OUR HIGHLIGHTS

FAST SERVICE PRODUCTION \ LASERBRAND

FAST SERVICE PRODUCTION

For all customized press-fit components, THT and now also SMD products. Fast sample delivery to customer requirement. After technical remainder clarification and final component design, we deliver your order to you from the third day on.

- From the 3rd day your individual, customized power element is with you
- Saves time and costs
- Ideal for design processes, troubleshooting, product optimization
- Durable, reliable, compact
- Supported by MTCON experts and MTCON technology know-how



BRAND YOUR OWN COMPONENTS

Brand your MTCON power elements with your own designs, e.g. your logo or other pictures, with a wide selection of possible shapes and sizes.

- Increased brand recognition on your products
- Clear differentiation towards the end customer
- Easy traceability
- Individuality



OUR HIGHLIGHTS

INSPEKTO \ SCHMIDT PRESSEN

HIGHEST QUALITY - WITH SAFETY! MTCON INSPECTS WITH INSPEKTO WITH IMMEDIATE EFFECT

From now on, artificial intelligence makes our quality inspection even faster: The autonomous Inspekto S70 vision system, directly integrated into our production line, automatically inspects our MTCON connectors with innovative AMV-AI (autonomous machine vision-based AI) technology.

The advantage for you: consistently tested safety, highest reliability, fast delivery!



EVERYTHING FROM ONE SOURCE!

Mtcon recommends various presses from Schmidt Technology for pressing in our MTCON products. We distinguish the following classes in the number of processed parts:

- Low volume with annual number of pieces from 1 to 10,000
- -Middle volume with annual number of pieces from 10,000 to 500,000
- High volume with annual quantity from 500,000

Please do not hesitate to contact us if you have any questions or require further information





OUR HIGHLIGHTS

BLUEBRASS - BYE BYE LEAD!



BYE BYE LEAD!

REACH COMPLIANT MATERIAL

The 2018 REACH regulation requires additional information on lead. We offer a lead alternative featuring optimum produceability & conductivity for lead-free products.

Use these alloys for long-term production and planning security. All brass alloys of the BlueBrass family meet the EU directive requirements for lead-free products.

Please contact us for additional information.

BlueBrass®
lead-free. machinable. conductive.
www.BlueBrass.com

OUR HIGHLIGHTS

MTCON SAMPLE BOXES

MTCON SAMPLE BOX

For new customers: Experience our POWER2PCB versatility. Our Sample Box features 13 products from our portfolio for testing and getting a feel of our quality. Contains standard elements, press-fit and soldering products and our power elements.

- Faster, efficient design with existing samples
- Saves time and cost
- Ideal for design processes, troubleshooting, product optimization



GREEN SOLUTION

MTCON SAMPLE BOX BYE BYE LEAD!

The proof of the pudding is in the eating: You want to convince yourself of our lead-free power elements, simply take them in your hand and examine them more closely or try them out?

MTCON now offers our cutting-edge "Bye Bye Lead!" Sample Box! We have selected 7 of our POWER -2-PCB products as lead-free alternative for you in a sample box. for you.

On request we will gladly send you our MTCON sample boxes.





POWER TOWER 
POWER SOCKET 
POWER EDGE 
POWER SEAL 
BROX BREAK 
STRONG SERIES 

POWER PROTECTOR 
POWER 2 
POWER CROWN 
BIZON BLOCK 
POWER SPACER 
POWER SMD 





APPLICATION EXAMPLES

TECHNICAL DATA



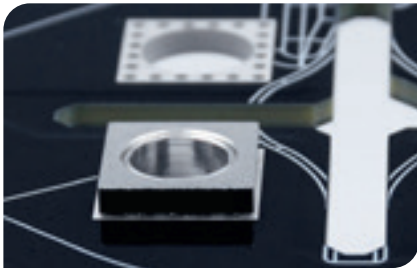
Contact protection around the power element, to prevent short circuits caused by touching cable lugs connected to juxtaposed power elements.



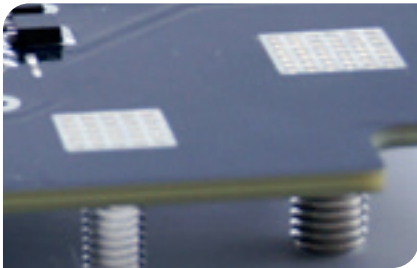
Two power elements with M8 pins at a defined distance for mechanical and electrical connection of mega fuses to the circuit board.



Two angled power elements at a defined distance for mechanical and electrical connection of high-current relays to the circuit board.



Two-part power element, with socket/through hole as an attachment point to prevent mechanical forces from being transmitted to the circuit board.



Pressed-in M10 power element, showing the pressed-in pins.

TECHNICAL DATA

Material

Base:	CuZn39Pb3
Surface:	tinned
Adhesive force:	meets IEC 352-5
Press-fit force:	max. 250 N per pin min. 40 N per pin
Press-out force:	min. 30 N per pin
PCB thickness:	min. 1.6 mm

APPLICATION EXAMPLES

PERMISSIBLE TORQUE

PERMISSIBLE TORQUE

Mechanical properties depend on the square or round material used.

Mechanical properties of CuZn39Pb3

Tensile strength:	min. 340 to max. 600 N/mm (MPa)
Yield limit:	min. 180 to max. 480 N/mm (MPa)
Elongation at rupture A_5 :	40 (soft) to 10 (hard)
Young's modulus:	96 GPa
HB:	90 – 175

Resulting maximum torque for each thread in brass (MS 63), according to DIN 267 part 25 (fracture torque):

Thread	M3	M4	M5	M6	M8	M10	M12
max. torque	0.5	1.2	2.2	3.9	9	17	35

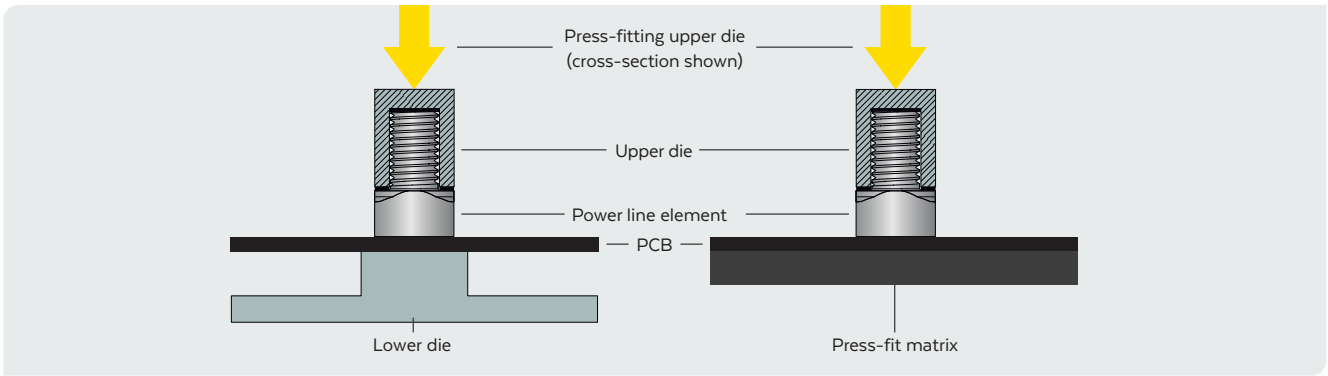
Measurements M3 – M12 in Nm



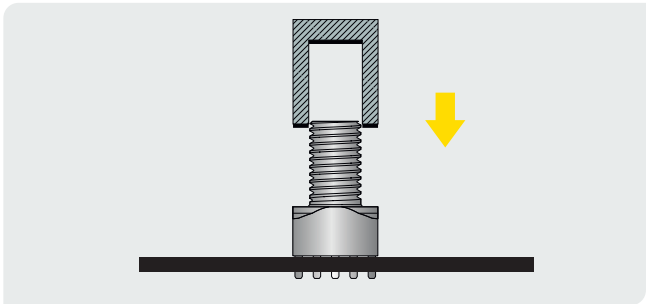


GENERAL GUIDELINES PRESS-FITTING

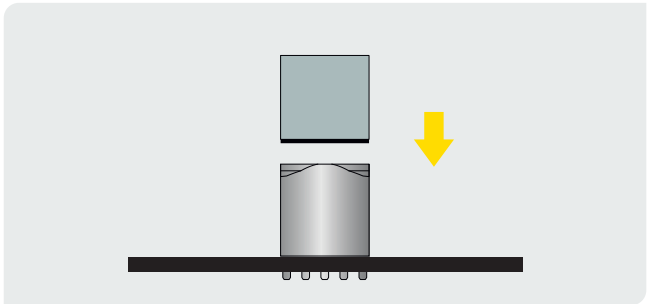
LOWER DIE OR PRESS-FIT MATRIX



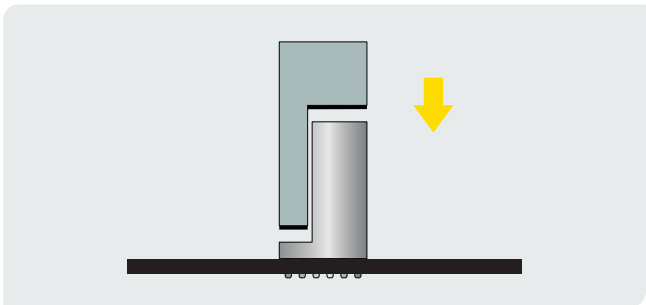
UPPER DIE



Tower power element with hollow upper die



Socket power element with flat upper die



Angled power element with L-composite upper die

HOLE SPECIFICATION FOR POWER ELEMENTS WITH MASSIVE PRESS-FIT ZONE

Please note that both the drilling diameter and the final diameter must be strictly observed.



Drilling diameter
 $1.600 \pm 0.025 \text{ mm}$



Final diameter, tin
 $1.475 \pm 0.05 \text{ mm}$



Final diameter, HAL surface

$1.450 \pm 0.05 \text{ mm}$

Copper - in hole: min. $25 \mu\text{m}$
max. $80 \mu\text{m}$

Annular ring: min. $125 \mu\text{m}$

Final diameter, metal with min. $\text{Cu } 25 \mu\text{m}$ (must not be smaller, even in parts). For HAL (covered edge) Ni/Au or tin; for circuit board thickness $> 1.50 \text{ mm}$

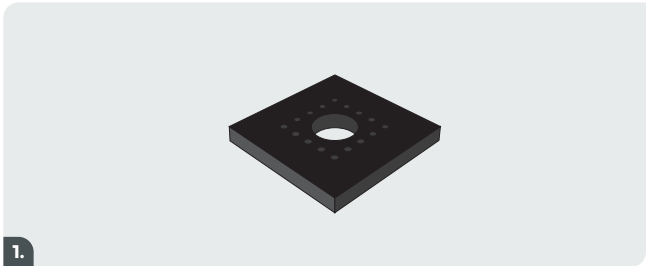




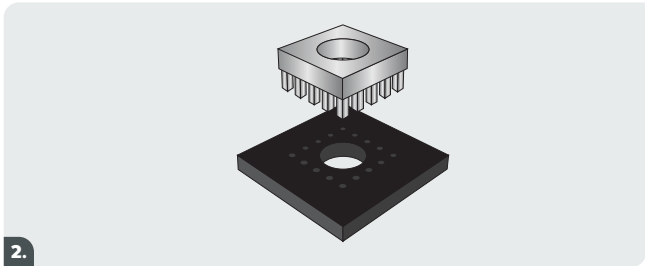
GENERAL GUIDELINES TWO-PIECE COMPONENTS

Why use two-part power line elements?

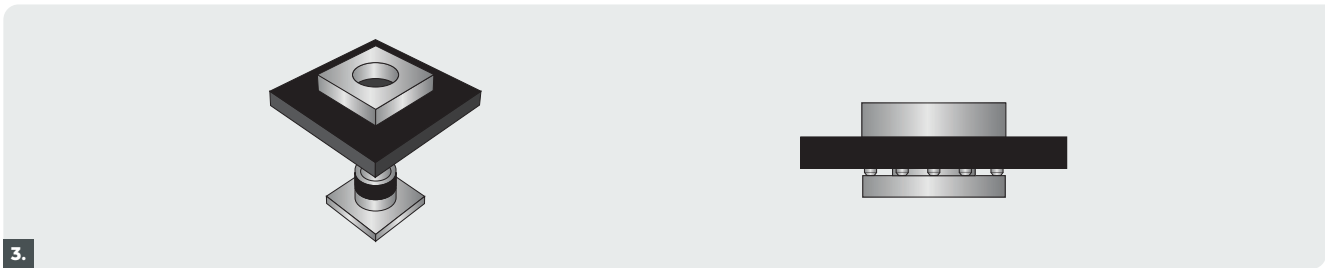
- Stronger mounting holes
- Ideal solution where clearance above PCB is limited
- Reduced mechanical stresses on the circuit board



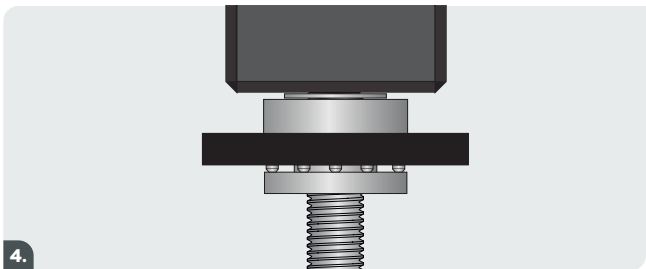
1. Choose a circuit board with suitable specifications from our catalog.



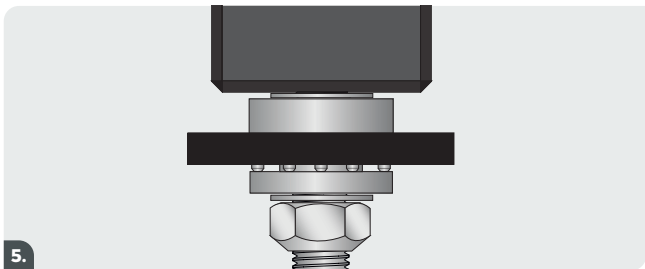
2. Press the base into the board from above.



3. Press-fit your chosen subcomponent (e.g. with through hole) into the base from below.



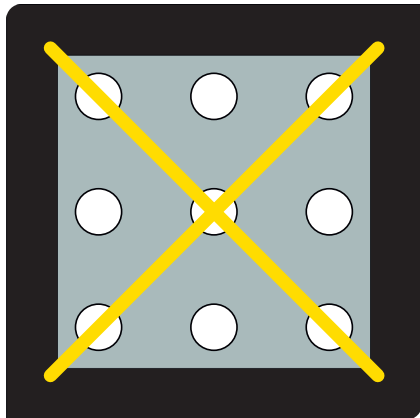
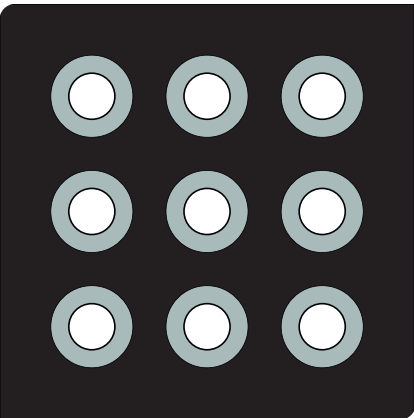
4. Insert your circuit component (e.g. battery switch) into the two-part power element from above.



5. Secure the component underneath with a nut and a washer.

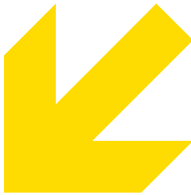
GENERAL GUIDELINES SOLDERING (THT)

- **In general:** standard press-fit components can be fitted by THT soldering, if needed.
- **Ideally:** surfaces are matt-tinned on custom THT components to ensure optimum results.
- Only the final diameter is relevant here (1.75 ± 0.05 mm).
- The layout should allow for an annular ring of max. 200 μ m. Pads across the entire area must be avoided.



Please inform us with your enquiry if you intend to solder our standard components. We aim to guarantee solderability of our standard press-fit components for at least one year.

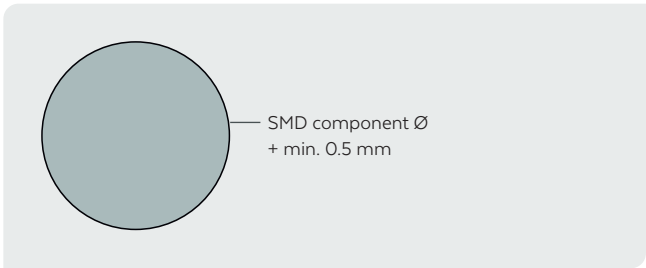
QUESTIONS?
WE ARE ALWAYS
HAPPY TO HELP!



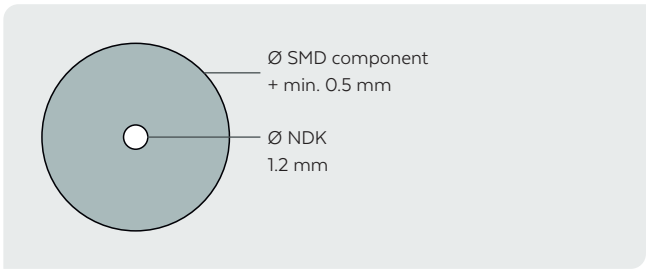


GENERAL GUIDELINES SOLDERING (SMT)

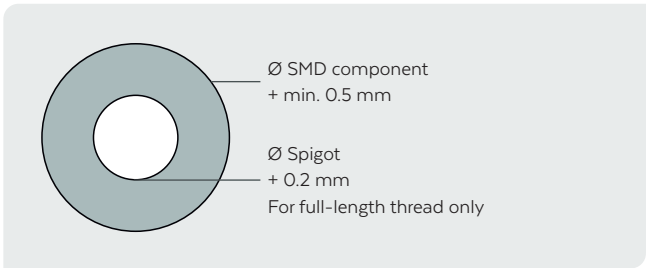
- Pad diameter min. 0.5 mm larger than component
- Vias all around the pad for greater current carrying capacity
- Solder paste thickness: 150 µm to 200 µm
- Please enquire about suitable solder pastes for you application



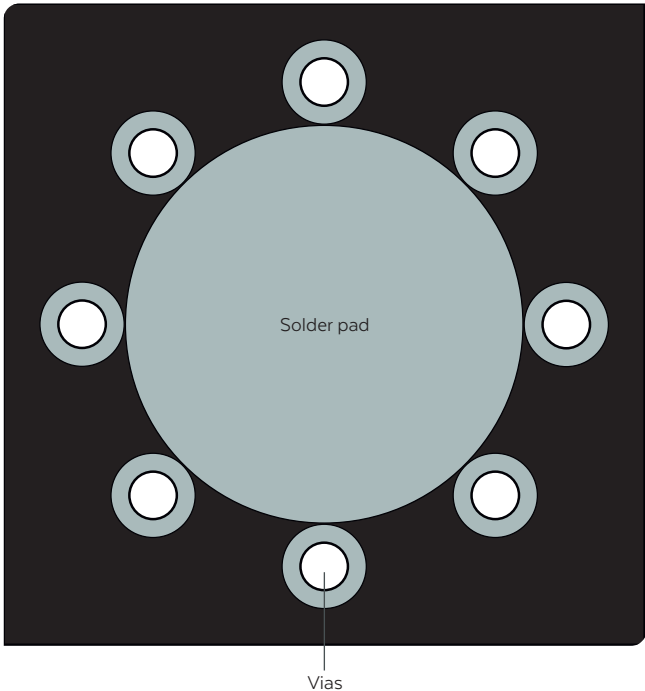
Solder pad



Solder pad with spigot



Solder pad for full-length internal thread



DERATING CURVES NOTES

1. Cable

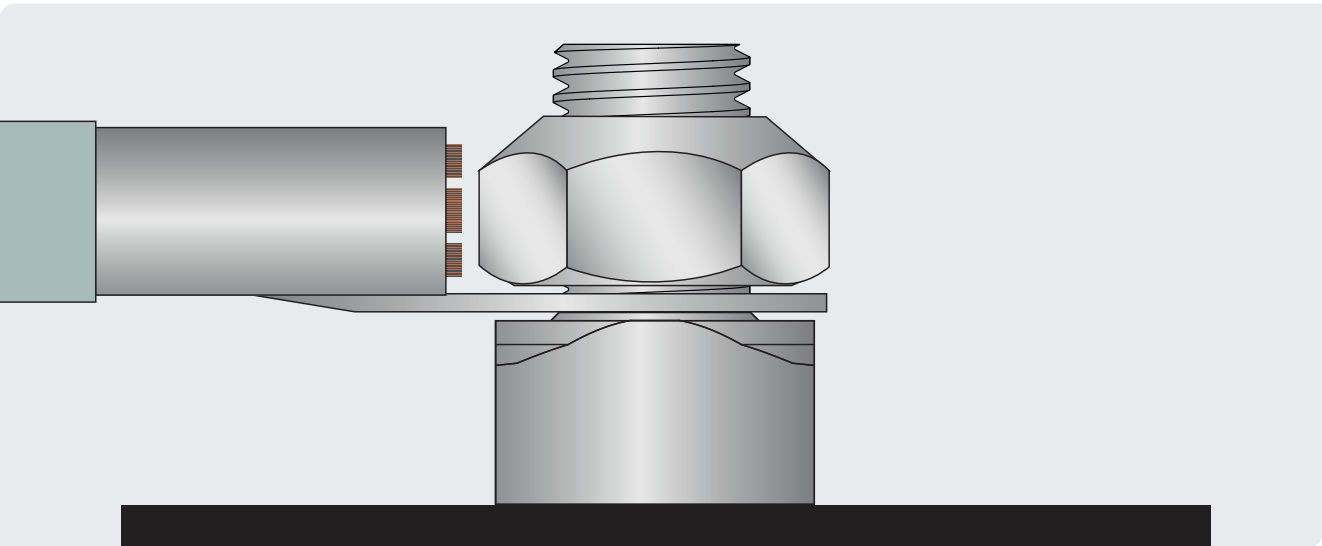
- Conductor cross-section
- Cable lug size
- Cable lug design

2. Power element

- Size (e.g. thread size)
- Type (e.g. number of pins/number of press-fit zones/body mass)
- Connection method (SMT/THT or press-fit versions)

3. Circuit board

- Conductive track width
- Number of layers
- Thickness of copper in the layer(s)
- Etc.



The derating cuvers shown are snapshots, and are subject to extreme variation (positive or negative) if, for example, cable cross-section and/or circuit board design is changed.

In all cases, we recommend that you review the system as a whole and its current carrying capacity with the cables, power elements, and PCB designs selected, to prove the current carrying capacity of your entire system. If your system fails this test (e.g. if components, PCB or cables overheat), you must strengthen the weakest link in the chain.

The weakest link will NOT normally be the power element, as these are only very rarely pushed to their limits. Therefore, you do not necessarily need to select a larger power element if, for example, a cable cross-section proves too small.

We are always happy to advise you and help you with the design and execution of these tests.



DERATING CURVE

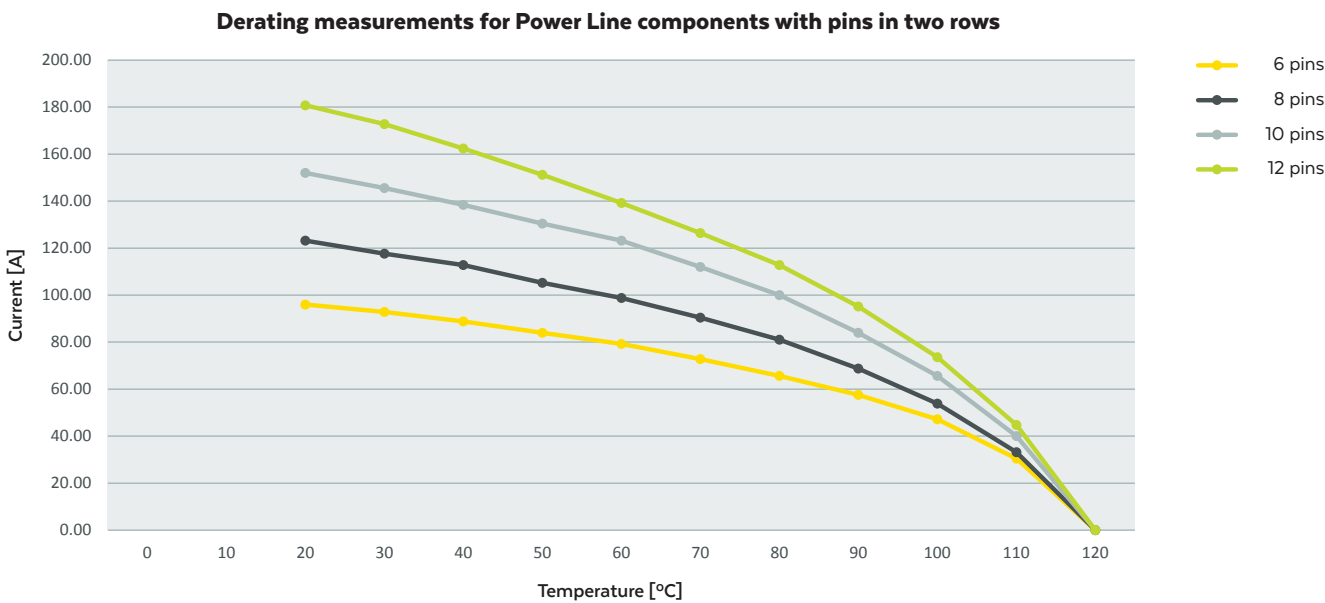
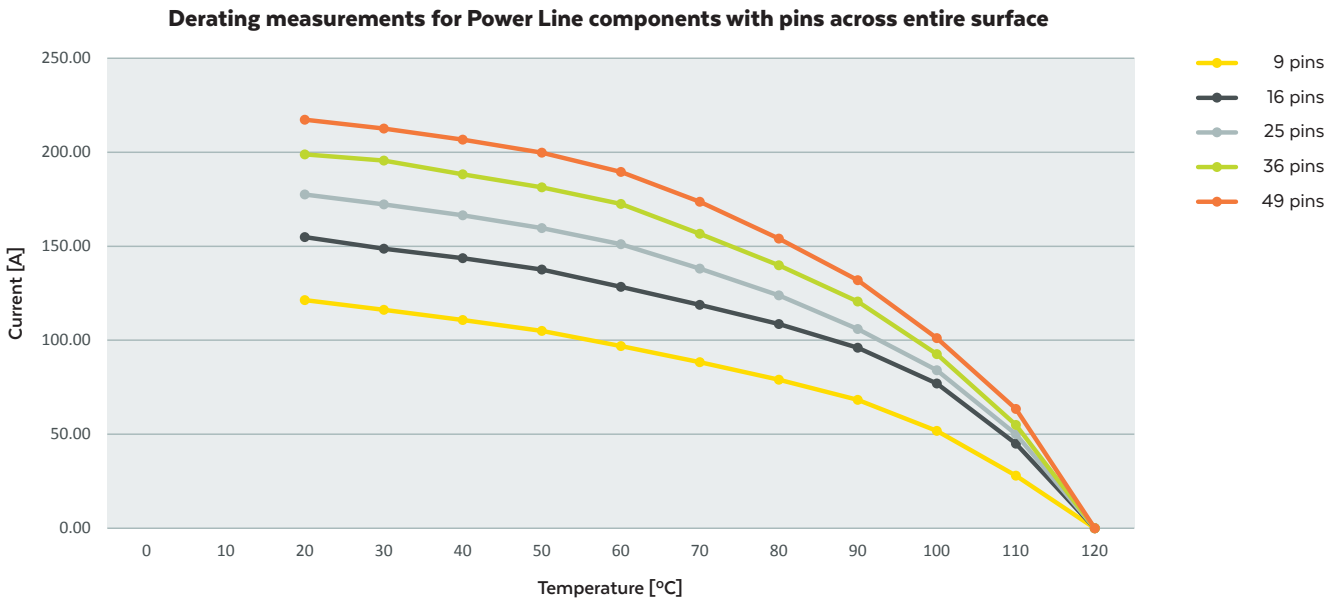
PINS ACROSS ENTIRE SURFACE / PINS IN TWO ROWS

Derating curves are snapshots under test conditions!

Testing was undertaken using a two-layer circuit board, with 70 µm copper.

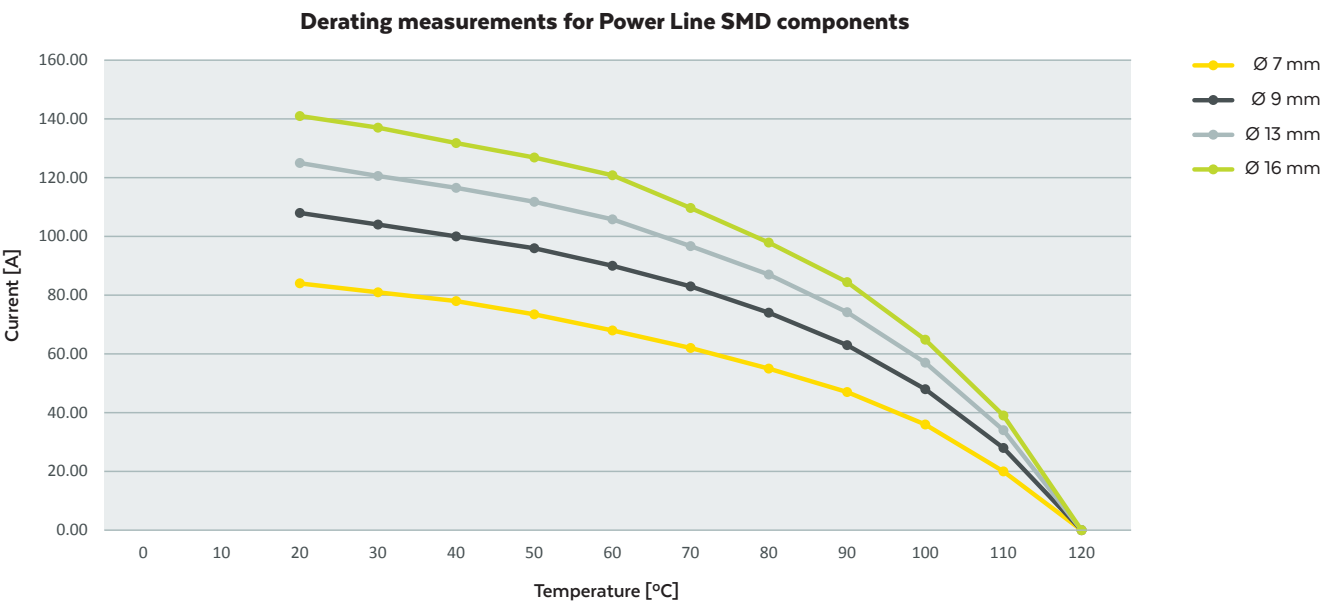
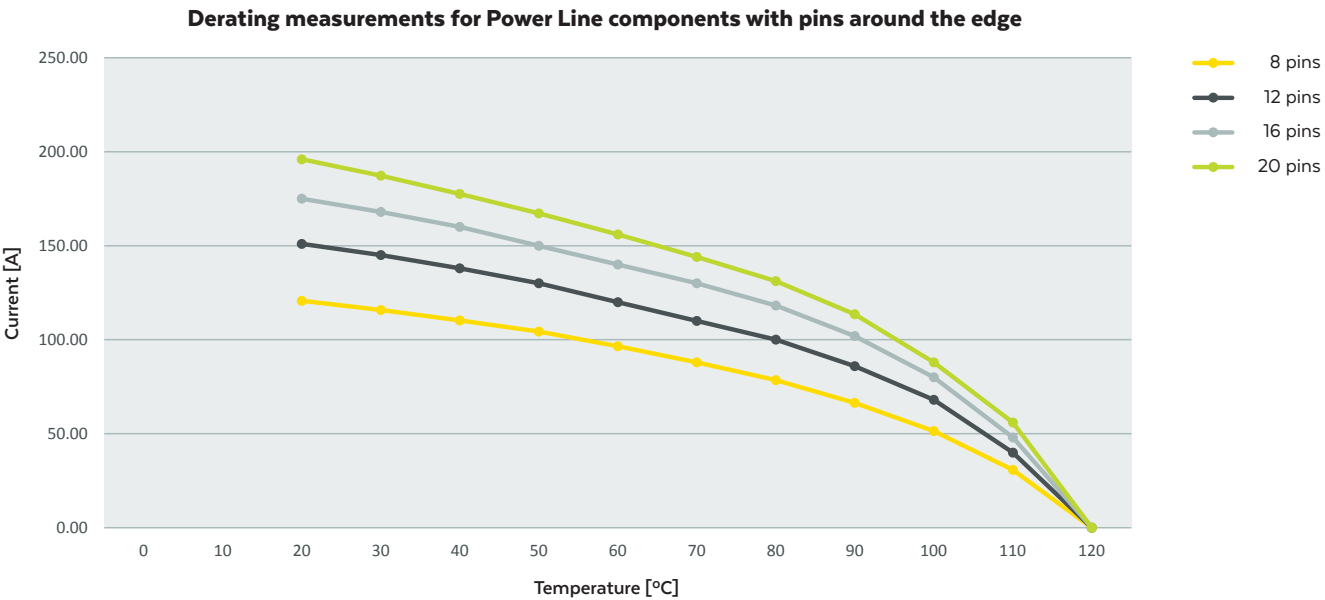
Current carrying capacity

The derating curves show the current carrying capacity - which is not constant - for each component, by arrangement and by numbers of pins.



DERATING CURVE

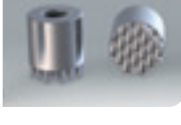
PINS AROUND EDGE / SMD





PRODUCT OVERVIEW
PRESS-FIT

	Number of pins	4	6	8	9	10	12	16	20	25	36	49
	POWER TOWER pins across entire surface				M3 M4 M5			M4 M5		M6 M8	M10	M12
	POWER TOWER RS mates with Radsok® pins across entire surface							Ø 3.2		Ø 6	Ø 8	
	POWER SOCKET pins across entire surface	M3			M3			M4 M5 M6		M8	M10	
	POWER SOCKET pins in two rows		M3	M4 M5 M6		M8	M10					
	POWER SOCKET pins around edge			M2.5			M4 M5	M6 M8	M10			
	POWER EDGE pins across entire surface				M3 Ø 3.2			M4 M5 Ø 4.2 Ø 5.2		M6 M8 Ø 6.2 Ø 8.2	M10 Ø 10.2	
	POWER EDGE pins in two rows		M3 Ø 3.2	M4 M5 Ø 4.2 Ø 5.2		M6 M8 Ø 6.2 Ø 8.2	M10 Ø 10.2					
	POWER EDGE U-Shape pins across entire surface									Ø 5.2	Ø 8.2 Ø 10.2	

	Number of pins	12	21
	POWER TOWER SEAL Pinanordnung vollflächig		M6, M8
	POWER SOCKET SEAL Pinanordnung vollflächig	M6	M6, M8
	POWER SOCKET RUND Pinanordnung vollflächig		M6

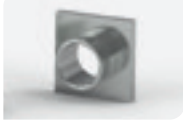
	Number of pins	2	3	4	8	12
	BROX BREAK POWER TOWER pins around edge	M4, M5		M5, M6	M6, M8	M8, M10, M12
	BROX BREAK POWER SOCKET pins around edge	M5, M6	M5	M5, M6	M6, M8	M8, M10, M12
	BROX BREAK POWER EDGE pins around edge	M4, M5 Ø 4.3, Ø 5.3		M5, M6 Ø 5.3, Ø 6.4	M6, M8 Ø 6.4, Ø 8.4	M8, M10 Ø 8.4, Ø 10.5

	Number of pins	4 + 9
	POWER SOCKET STRONG SERIES	M5, M6, M8, M10

	POWER PROTECTOR	Suitable for Power Tower and Power Socket 7, 9, 13 and 16 basic size
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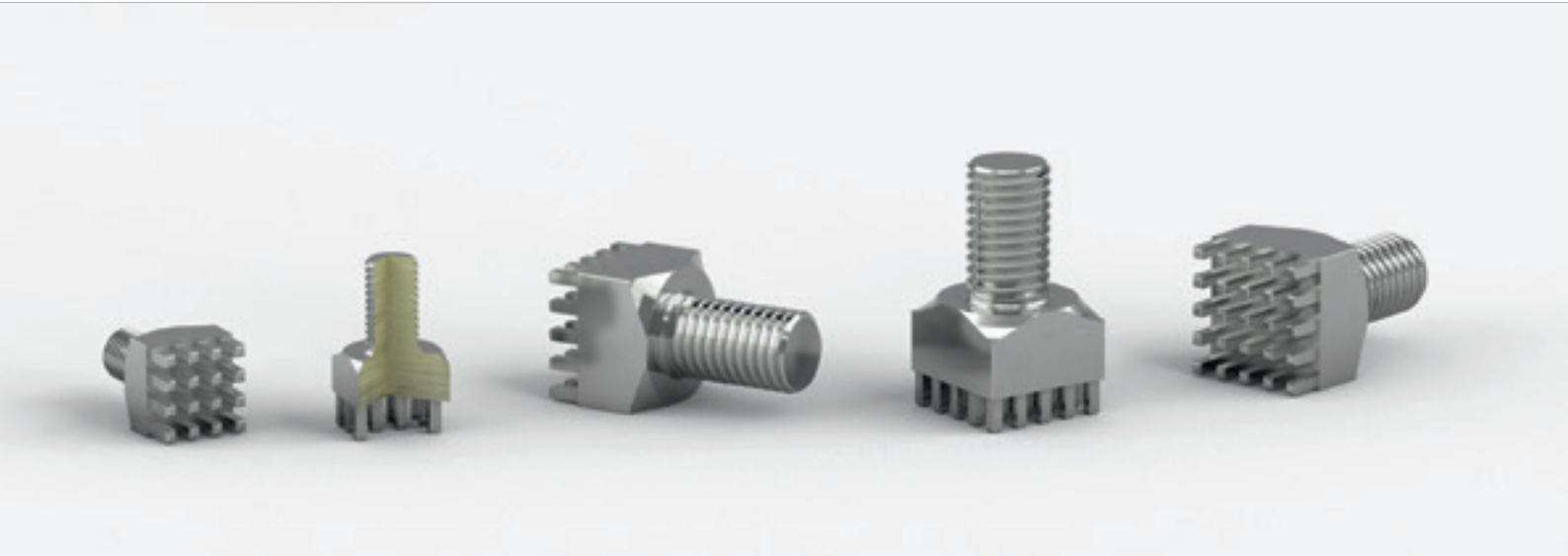
PRODUCT OVERVIEW
PRESS-FIT

	Number of pins	8	10	12	16	20
	POWER 2 GROUND pins in two rows	M3, M4 Ø 3.2, Ø 4.2	M4, M5, M6 Ø 4.2, Ø 5.2, Ø 6.2	M8 Ø 8.2		
	POWER 2 GROUND pins around edge			M3, M4, M5 Ø 4.2, Ø 5.2	M4, M5, M6 Ø 4.2, Ø 5.2, Ø 6.2	M8, M10 Ø 6.2, Ø 8.2
	POWER 2 TOWER external thread	Suitable for POWER 2 GROUND				
	POWER 2 SOCKET internal thread	Suitable for POWER 2 GROUND				
	POWER 2 SOCKET through hole	Suitable for POWER 2 GROUND				
	Number of springs	1		2		3
	POWER CROWN spring in tin or silver	3.3		7.4		11.5
	Number of bizon contacts	3 two rows	3 two rows with tab	4 two rows		3 around edge
	BIZON BLOCK POWER TOWER	M5		M6		M5
	BIZON BLOCK POWER SOCKET	M5, M6	M5, M6			

	Wrench sizes	4	5	5.5	7	Ø
	POWER SPACER Internal-Internal full-length	M2, M2.5	M2.5, M3	M3, M3 (Steel, white galvanized)	M4	
	POWER SPACER Internal-Internal thread both sides	M2, M2.5	M2.5, M3	M2.5, M3	M4	
	POWER SPACER Internal-External	M2.5	M2, M2.5, M3	M3, M3 (Steel: white galvanized, blue passivated, yellow chromated)	M4	M6
	Length	5	10	10.2	15	20
	POWER SPACER spacer rollers	Ø 5.4	Ø 5.4	Ø 9 (Stainless steel)	Ø 5.4	Ø 5.4
	Pol number	2		4		16
	POWER SPACER board2board both sides pins across entire surface	10		3		3
	POWER SPACER FLEX PRESS-FIT Power Socket, round			M2.5		



POWER TOWER
EXTERNAL THREAD, MASSIVE PRESS-FIT,
PINS ACROSS ENTIRE SURFACE



PRODUCT SPECIFICATION

- High-current circuit board connection
- UNC thread, or custom alterations on demand
- For attaching lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

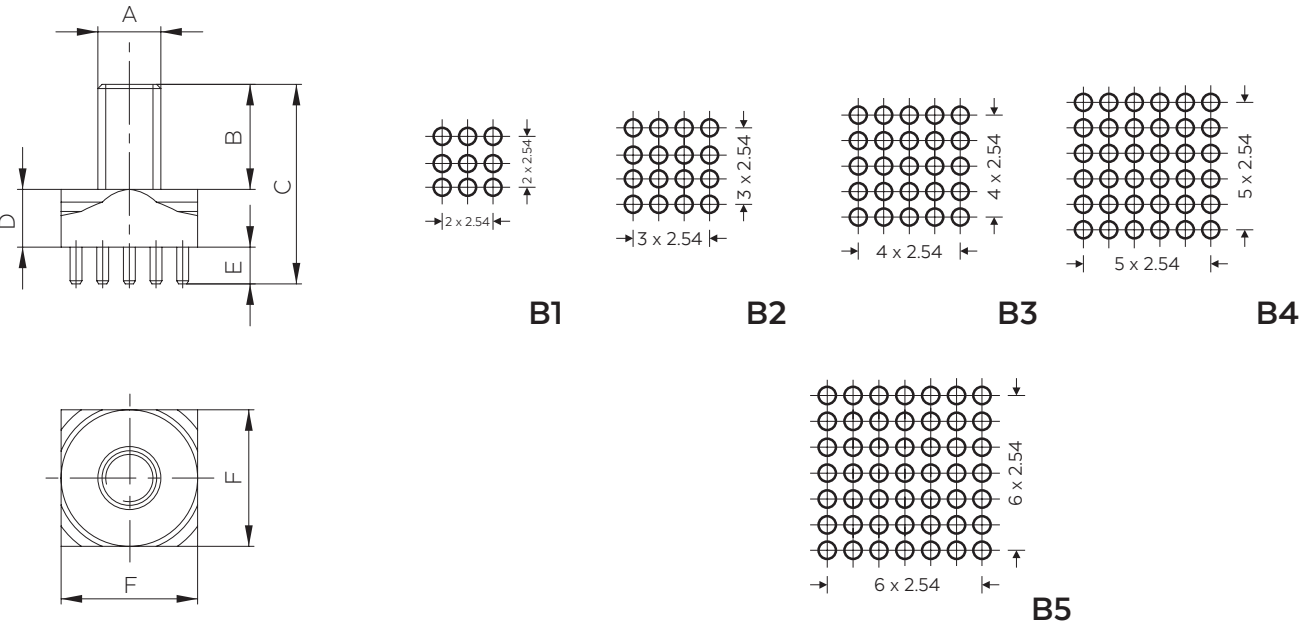
MATERIAL INFORMATION

Option	Part number
BlueBrass	01.1.00XX.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 01.1.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



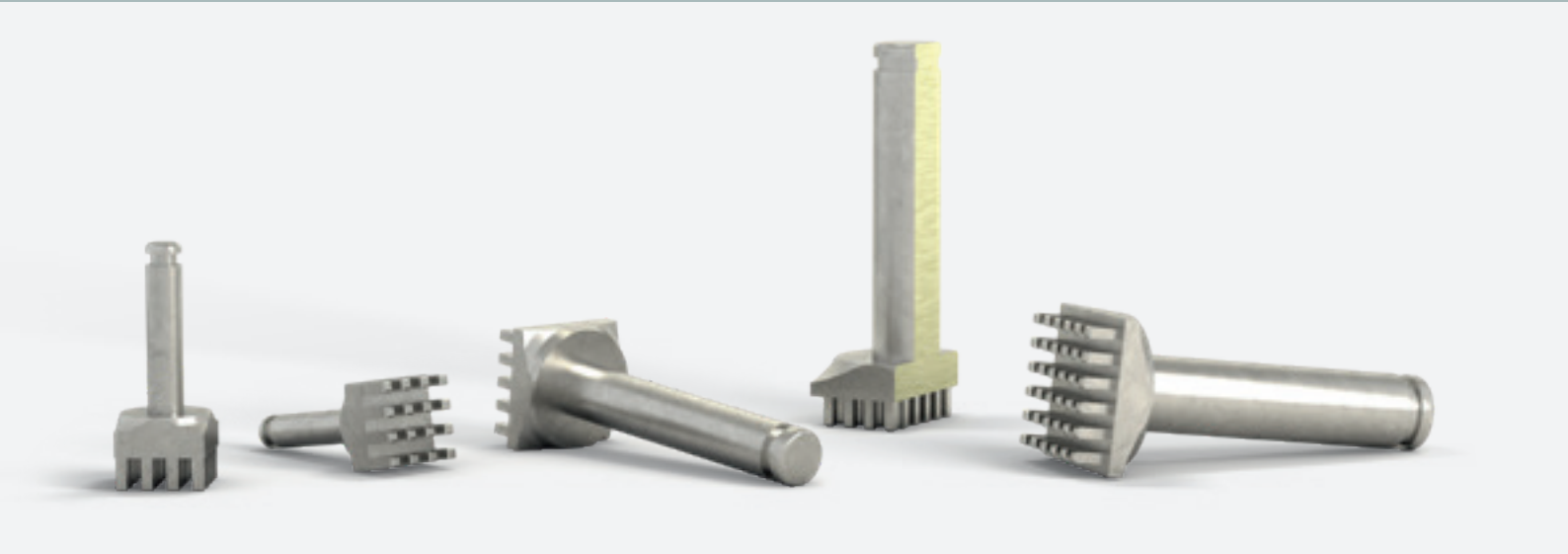
TECHNICAL DATA

A	B	C	D	E	F	No. of pins/ drilling pattern	Mass [g]	Part number
M3	5	11.5	3	3.5	7	9/B1	1.62	01.1.0001
M4	6	12.5	3	3.5	7	9/B1	2.21	01.1.0018
M4	6	13	3.5	3.5	9	16/B2	3.5	01.1.0002
M5	8	15.5	4	3.5	7	9/B1	3.26	01.1.0012
M5	8	16	4.5	3.5	9	16/B2	4.88	01.1.0003
M6	10	19	5.5	3.5	13	25/B3	10.76	01.1.0004
M6	17	26	5.5	3.5	13	25/B3	12.44	01.1.0011
M8	13	24	7.5	3.5	13	25/B3	16.75	01.1.0005
M8	18	33.5	12	3.5	13	25/B3	25.34	01.1.0019
M10	16	27.5	8	3.5	16	36/B4	28.5	01.1.0006
M12	30	41.5	8	3.5	18	49/B5	51.14	01.1.0028

Measurements B - F in mm
Masses are subject to slight variations in production



POWER TOWER RS
MATES WITH RADSOK®, MASSIVE PRESS-FIT,
PINS ACROSS ENTIRE SURFACE



PRODUCT SPECIFICATION

- High-current circuit board connection
- Pluggable high current contacting
- Easy to install because nothing has to be screwed
- Silver surface for optimum flow and maximum mating cycles
- Compatible with popular Radsok® bushes from Amphenol
- Customized solution on demand (e. g. sealed, other sizes, etc.)
- RoHS compliant, REACH compliant



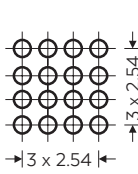
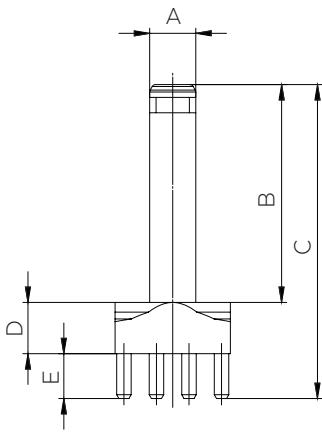
MATERIAL INFORMATION

Option	Part number
BlueBrass	01.7.000X.BB

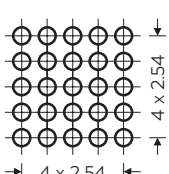


Our 01.7.000X.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

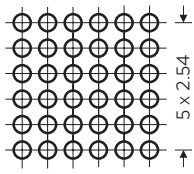
SCALE DRAWINGS



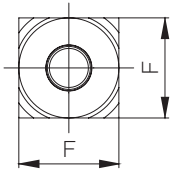
B2



B3



B4



TECHNICAL DATA

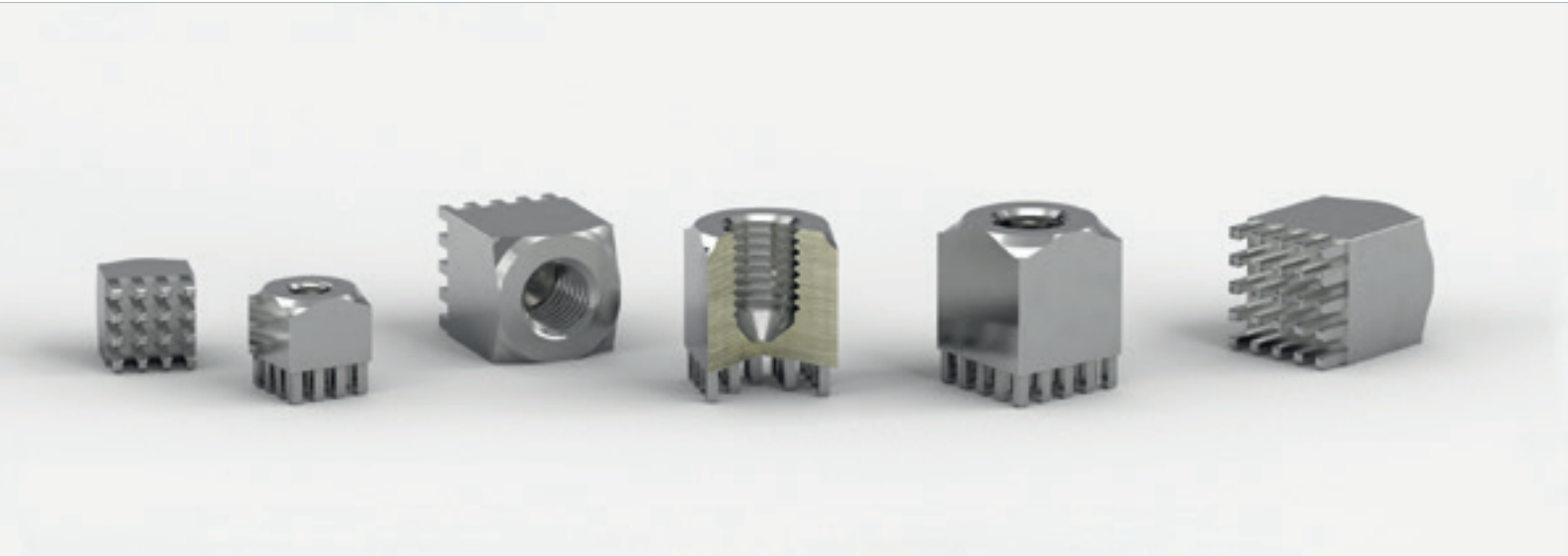
A	B	C	D	E	F	No. of pins/ drilling pattern	Mass [g]	Part number
Ø 3.6	17	21	4	3.5	9	16/B2	4.63	01.7.0004
Ø 6	34.5	42	4	3.5	13	25/B3	14.39	01.7.0005
Ø 8	35	42.5	4	3.5	16	36/B4	24.22	01.7.0006

Measurements A - F in mm
Masses are subject to slight variations in production

CO-ENGINEERED WITH **Amphenol**



POWER SOCKET
SOCKET WITH INTERNAL THREAD, PRESS-FIT,
PINS ACROSS ENTIRE SURFACE



PRODUCT SPECIFICATION

- High-current PCB connection
- UNC thread or custom alterations on demand
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant
- REACH compliant in BlueBrass option



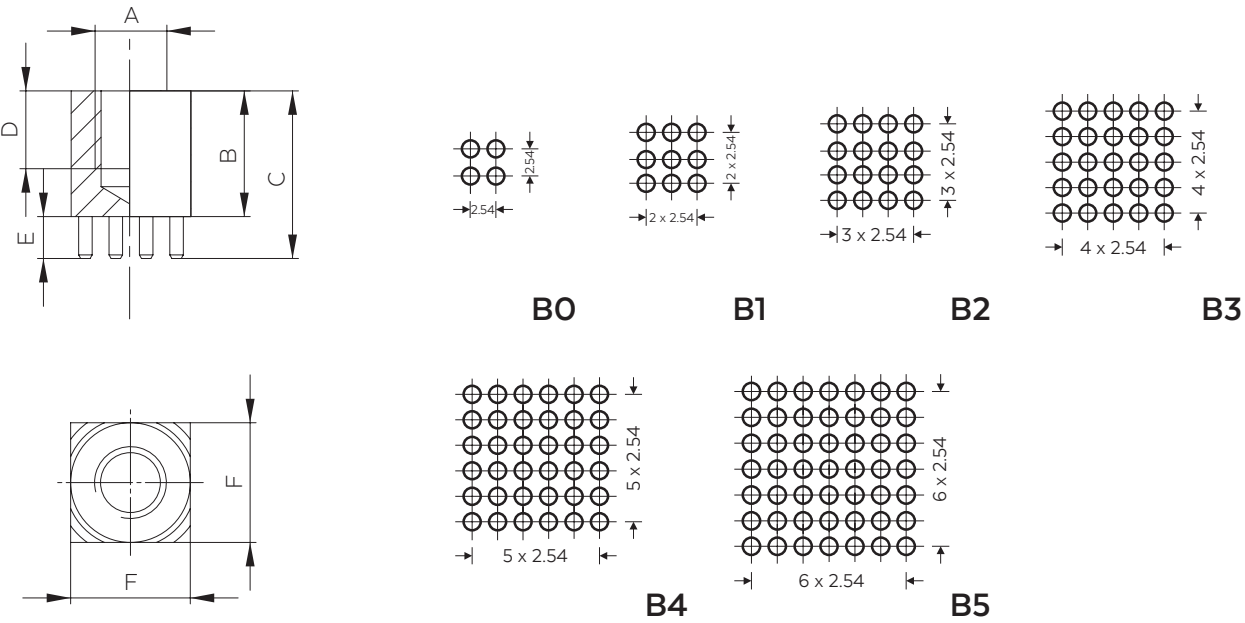
MATERIAL INFORMATION

Option	Part number
BlueBrass	02.1.00XX.BB



Our 02.1.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



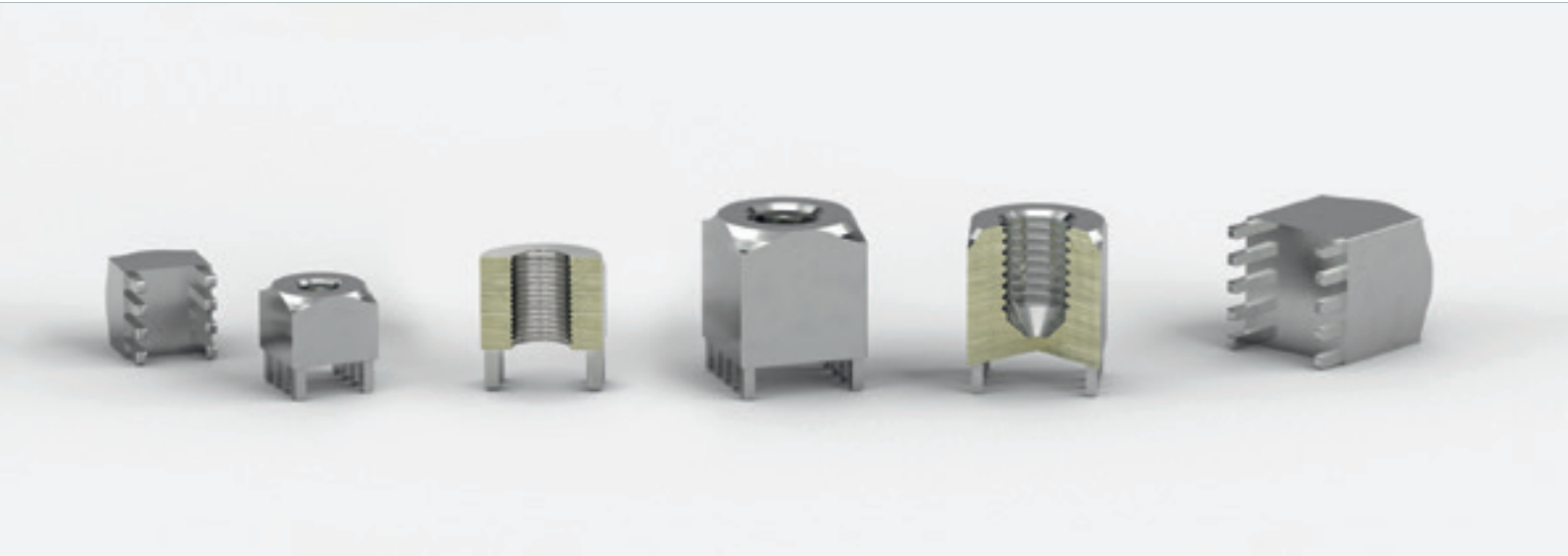
TECHNICAL DATA

A	B	C	D	E	F	No. of pins/ drilling pattern	Mass [g]	Part number
M3	7	10.5	4	3.5	5	4/B0	1.41	02.1.0050
M3	6	9.5	3.5	3.5	7	9/B1	2.58	02.1.0001
M4	7	10.5	4	3.5	9	16/B2	4.89	02.1.0002
M5	7	10.5	4	3.5	9	16/B2	4.64	02.1.0003
M6	10.5	14	7	3.5	10	16/B2	7.89	02.1.0004
M8	13.5	17	8	3.5	13	25/B3	16.23	02.1.0005
M10	17.5	21	11	3.5	16	36/B4	31.3	02.1.0006

Measurements B - F in mm
Masses are subject to slight variations in production



POWER SOCKET
SOCKET WITH INTERNAL THREAD, MASSIVE PRESS-FIT,
PINS IN TWO ROWS



PRODUCT SPECIFICATION

- High-current PCB connection
- UNC thread or custom alterations on demand
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- For use with smaller press-fit forces
- For use in layouts which do not allow pins all across the surface
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

MATERIAL INFORMATION

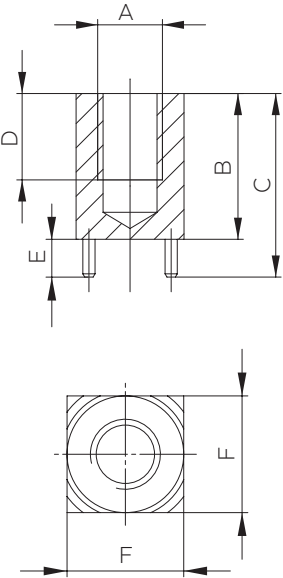
Option	Part number
BlueBrass	02.2.000X.BB



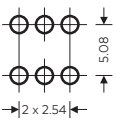
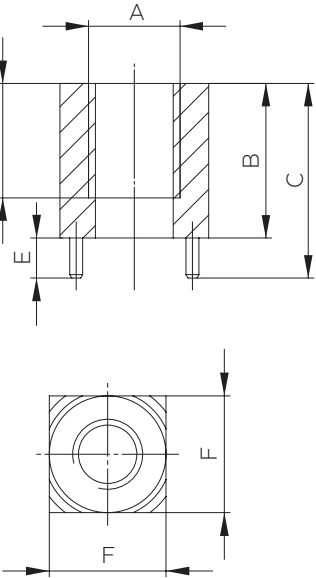
Our 02.2.000X.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS

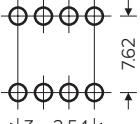
TYPE A



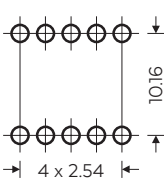
TYPE B



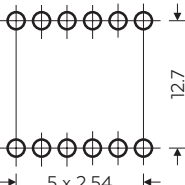
B1



B2



B3



B4

TECHNICAL DATA

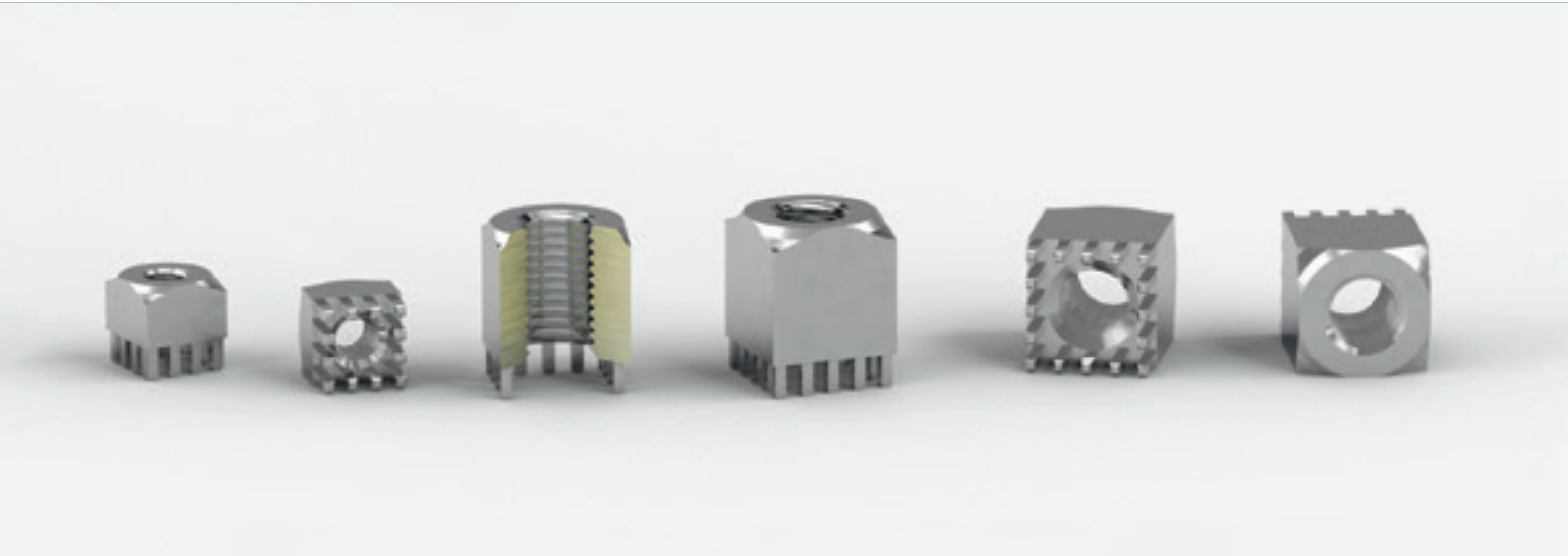
A	B	C	D	E	F	Type	No. of pins/ drilling pattern	Mass [g]	Part number
M3	6	9.5	5	3.5	7	B	6/B1	2.41	02.2.0001
M4	7	10.5	6	3.5	9	B	8/B2	4.47	02.2.0002
M5	7	10.5	6	3.5	9	B	8/B2	4.16	02.2.0003
M6	13.5	17	9	3.5	10	A	8/B2	9.64	02.2.0004
M8	13.5	17	10	3.5	13	B	10/B3	15.12	02.2.0005
M10	17.5	21	11	3.5	16	A	12/B4	30.42	02.2.0006

Measurements B - F in mm
Masses are subject to slight variations in production



POWER SOCKET

SOCKET WITH INTERNAL THREAD, MASSIVE PRESS-FIT,
PINS AROUND EDGE



PRODUCT SPECIFICATION

- High-current PCB connection
- UNC thread or custom alterations on demand
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- For use with smaller press-fit forces
- For use in layouts which do not allow pins all across the surface
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

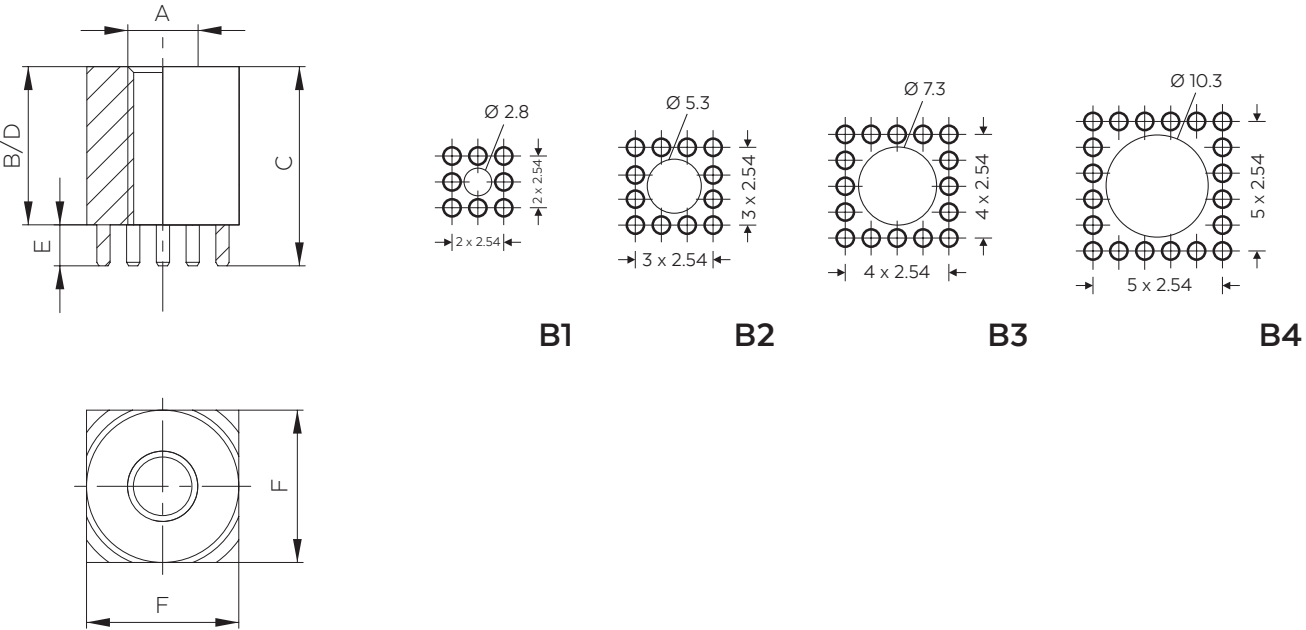
MATERIAL INFORMATION

Option	Part number
BlueBrass	02.3.000X.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 02.3.000X.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



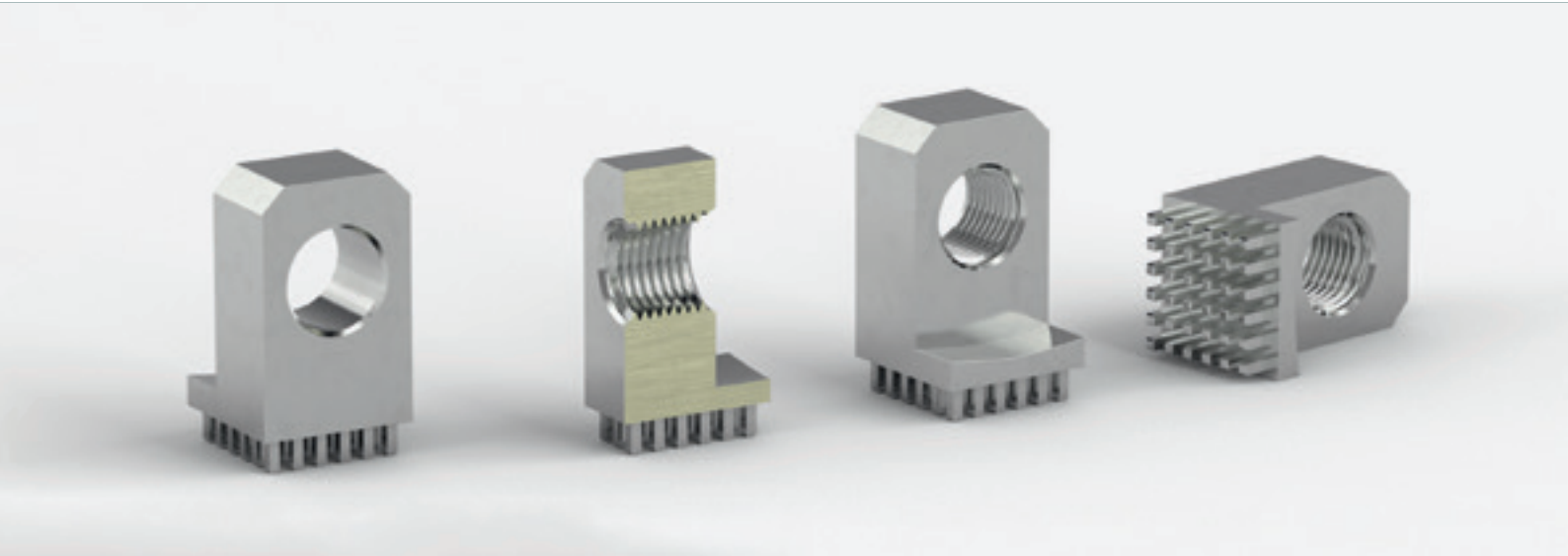
TECHNICAL DATA

A	B/D	C	E	F	No. of pins/ drilling pattern	Mass [g]	Part number
M2.5	6	9.5	3.5	7	8/B1	2.57	02.3.0001
M4	6	9.5	3.5	9	12/B2	3.94	02.3.0002
M5	6	9.5	3.5	9	12/B2	3.71	02.3.0003
M6	13.5	17	3.5	13	16/B3	17.05	02.3.0004
M8	13.5	17	3.5	13	16/B3	15.32	02.3.0005
M10	17.5	21	3.5	16	20/B4	29.41	02.3.0006

Measurements B - E in mm
Masses are subject to slight variations in production



POWER EDGE
ANGLED, MASSIVE PRESS-FIT,
PINS ACROSS ENTIRE SURFACE



PRODUCT SPECIFICATION

- High-current PCB connection
- Connection at 90°
- Available with thread or clearance hole
- UNC thread or custom alterations on demand
- Can be used for mounting on housings etc.
- For connecting components such as high-current relays, cable lugs and more
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

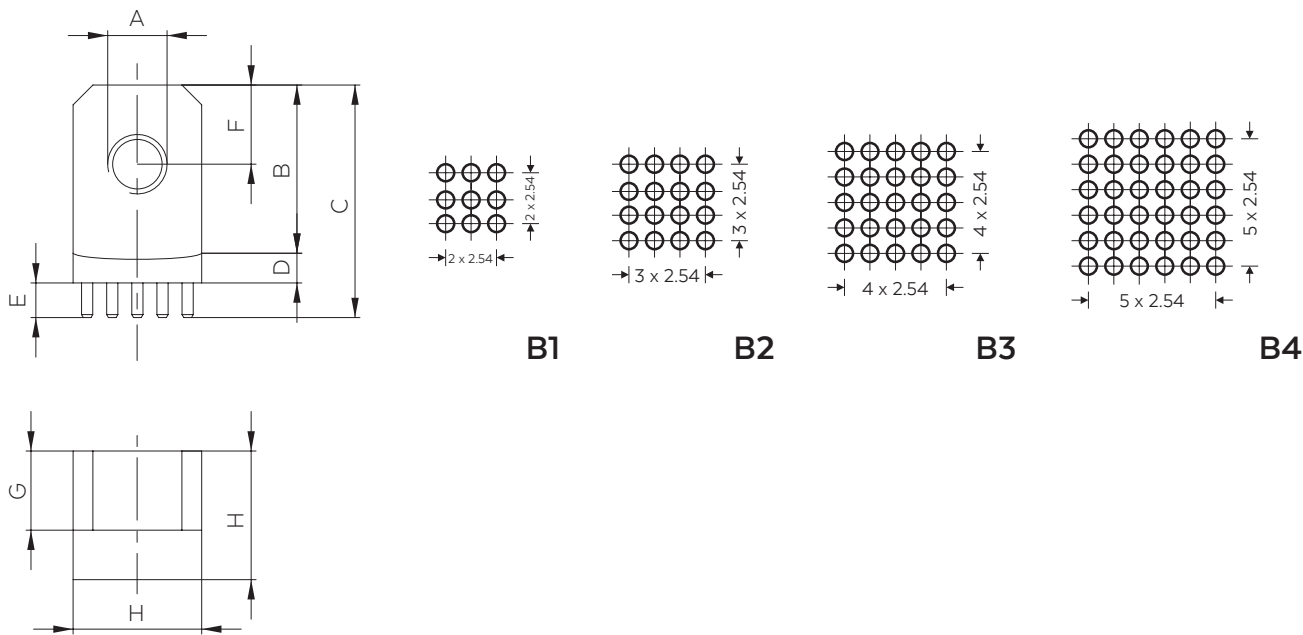
MATERIAL INFORMATION

Option	Part number
BlueBrass	03.1.00XX.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 03.1.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	G	H	No. of pins/ drilling pattern	Mass [g]	Part number
M3	11	17.5	3	3.5	5	4	7	9/B1	3.98	03.1.0001
M4	11	17.5	3	3.5	5	5	9	16/B2	6.38	03.1.0002
M5	11	17.5	3	3.5	5	5	9	16/B2	6.15	03.1.0003
M6	17	23.5	3	3.5	8	8	13	25/B3	18.57	03.1.0004
M8	22	23.5	3	3.5	8	8	13	25/B3	17.44	03.1.0005
M10	28.5	28.5	3	3.5	10	10	16	36/B4	32.28	03.1.0006
Ø 3.2	11	17.5	3	3.5	5	4	7	9/B1	3.88	03.1.0007
Ø 4.2	11	17.5	3	3.5	5	5	9	16/B2	6.15	03.1.0008
Ø 5.2	11	17.5	3	3.5	5	5	9	16/B2	5.84	03.1.0009
Ø 6.2	17	23.5	3	3.5	8	8	13	25/B3	17.86	03.1.0010
Ø 8.2	22	23.5	3	3.5	8	8	13	25/B3	16.32	03.1.0011
Ø 10.2	28.5	28.5	3	3.5	10	10	16	36/B4	30.16	03.1.0012

Measurements B - H in mm
Masses are subject to slight variations in production



POWER EDGE
ANGLED, MASSIVE PRESS-FIT,
PINS IN TWO ROWS



PRODUCT SPECIFICATION

- High-current PCB connection
- Connection at 90°
- Available with thread or clearance hole
- UNC thread or custom alterations on demand
- For use with smaller press-fit forces
- For connecting components such as high-current relays, cable lugs and more
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

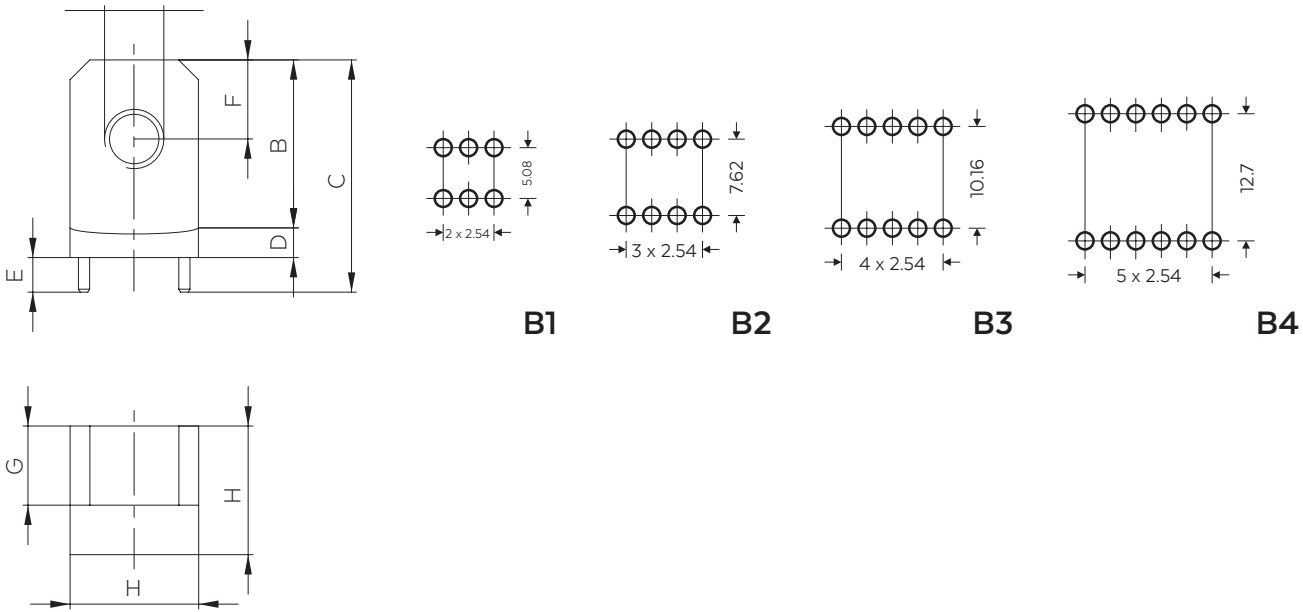
MATERIAL INFORMATION

Option	Part number
BlueBrass	03.2.00XX.BB



Our 03.2.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



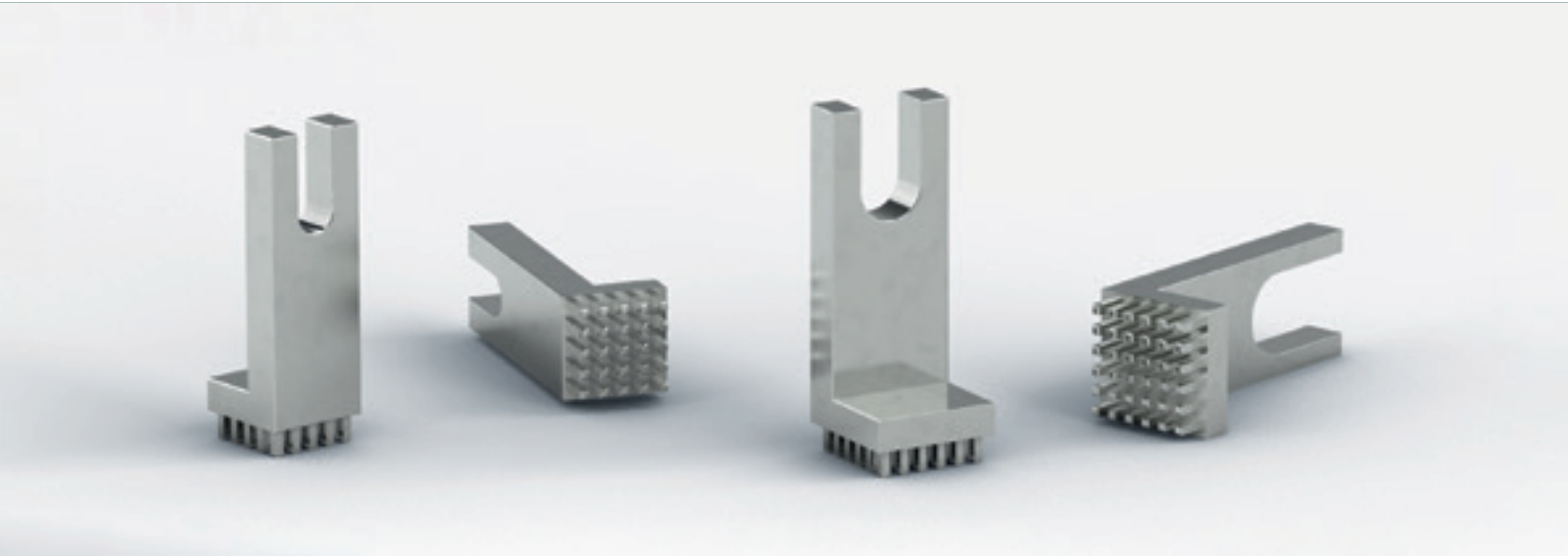
TECHNICAL DATA

A	B	C	D	E	F	G	H	No. of pins/ drilling pattern	Mass [g]	Part number
M3	11	17.5	3	3.5	5	4	7	6/B1	3.87	03.2.0001
M4	11	17.5	3	3.5	5	5	9	8/B2	6.08	03.2.0002
M5	11	17.5	3	3.5	5	5	9	8/B2	5.86	03.2.0003
M6	17	23.5	3	3.5	8	8	13	10/B3	18.02	03.2.0004
M8	17	23.5	3	3.5	8	8	13	10/B3	16.89	03.2.0005
M10	22	28.5	3	3.5	10	10	16	12/B4	31.39	03.2.0006
Ø 3.2	11	17.5	3	3.5	5	4	7	6/B1	3.76	03.2.0007
Ø 4.2	11	17.5	3	3.5	5	5	9	8/B2	5.86	03.2.0008
Ø 5.2	11	17.5	3	3.5	5	5	9	8/B2	5.55	03.2.0009
Ø 6.2	17	23.5	3	3.5	8	8	13	10/B3	17.3	03.2.0010
Ø 8.2	22	23.5	3	3.5	8	8	13	10/B3	15.77	03.2.0011
Ø 10.2	28.5	28.5	3	3.5	10	10	16	12/B4	29.28	03.2.0012

Measurements B - H in mm
Masses are subject to slight variations in production



POWER EDGE
U- SHAPE, ANGLED, MASSIVE PRESS-FIT,
PINS ACROSS ENTIRE SURFACE



PRODUCT SPECIFICATION

- High-current PCB connection
- Connection at 90°
- U- profile makes mounting bolt easy to manipulate
- Larger height tolerances can be compensated for
- Custom alterations on demand
- Can be used for mounting on housings etc.
- For connecting components such as high-current relays, cable lugs and more
- RoHS compliant, REACH compliant



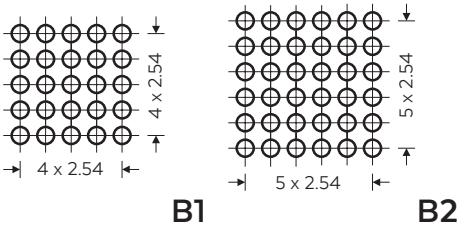
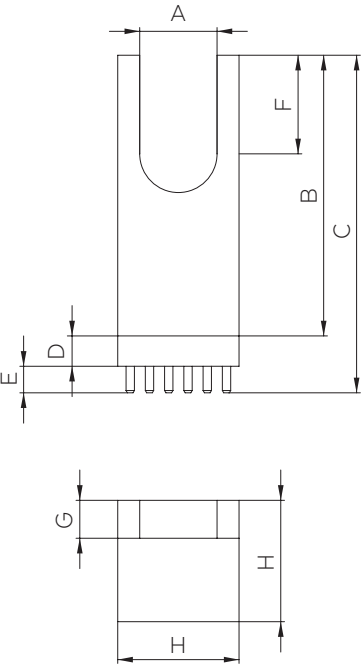
MATERIAL INFORMATION

Option	Part number
BlueBrass	03.1.00XX.BB



Our 03.1.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	G	H	No. of pins/ drilling pattern	Mass [g]	Part number
Ø 5.2	32	39.5	4	3.5	10	5	13	25/B1	21.62	03.1.0021
Ø 8.2	35	42.5	4	3.5	10	5	16	36/B2	29.13	03.1.0018
Ø 10.2	37	44.5	4	3.5	13	5	16	36/B2	27.73	03.1.0017

Measurements A - H in mm
Masses are subject to slight variations in production



POWER TOWER SEAL WITH OR WITHOUT SEALING RING
EXTERNAL THREAD, SOLID PRESS-FIT TECHNOLOGY,
PIN ARRANGEMENT FULL-SURFACE



PRODUCT SPECIFICATION

- High-current PCB connection with sealing function
- UNC thread or customer-specific modifications on request
- For fastening cable lugs, especially as a sealed version for e.g. a push-through solution through the housing
- Direct connection from printed circuit board to housing outside particularly well suited
- Standard sizes on the right side in the table, customer specific solutions possible on request
- RoHS compliant, REACH compliant



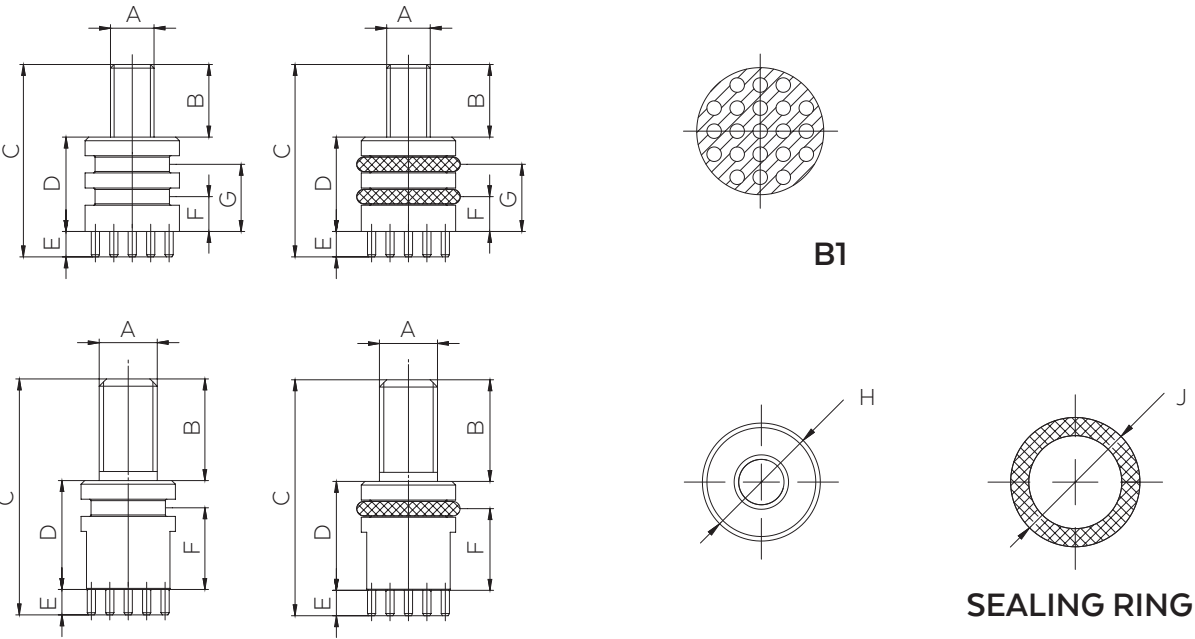
MATERIAL INFORMATION

Variant	Part Number
BlueBrass	01.8.00XX.ET.BB
BlueBrass	01.8.00XX.BB



Our 01.8.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	G	H	J	No. of pins/ drilling pattern	Mass [g]	Part number
M6	10	26.5	13	3.5	4.8	9.25	Ø13		21/B1	16.46	01.8.0004.ET
M6	10	26.5	13	3.5	4.8	9.25		Ø14.25	21/B1	16.51	01.8.0004
M8	14	32.5	15	3.5	11.25	-	Ø13		21/B1	16.46	01.8.0005.ET
M8	14	32.5	15	3.5	11.25	-		Ø14.25	21/B1	16.48	01.8.0005
M8	14	39	21.5	3.5	10.75	-	Ø13		21/B1	29.73	01.8.0006.ET
M8	14	39	21.5	3.5	10.75	-		Ø14.25	21/B1	29.75	01.8.0006

Measurements B - J in mm
Masses are subject to slight variations in production



POWER SOCKET SEAL WITH OR WITHOUT SEALING RING
INTERNAL THREAD, SOLID PRESS-FIT TECHNOLOGY,
PIN ARRANGEMENT FULL-SURFACE



PRODUCT SPECIFICATION

- High-current PCB connection with sealing function
- UNC thread or customer-specific modifications on request
- For fastening cable lugs, especially as a sealed version for e.g. a push-through solution through the housing
- Direct connection from printed circuit board to housing outside particularly well suited
- Standard sizes on the right side in the table, customer specific solutions possible on request
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

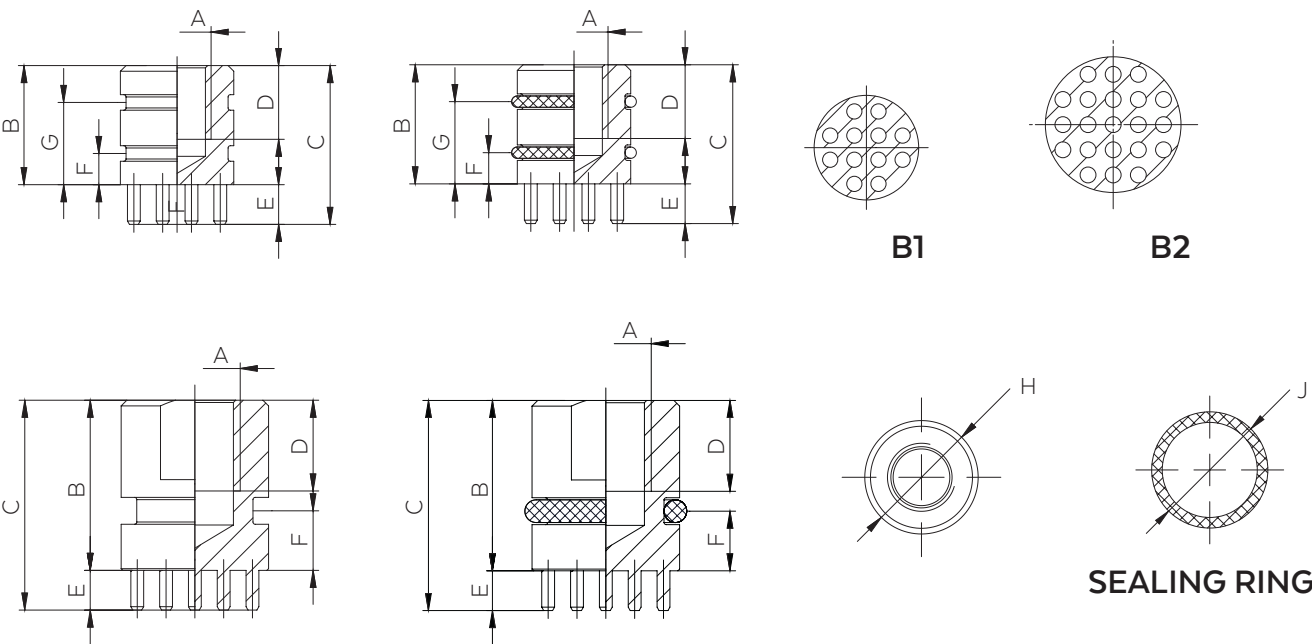
MATERIAL INFORMATION

Variant	Part Number
BlueBrass	02.8.00XX.ET.BB
BlueBrass	02.8.00XX.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 02.8.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



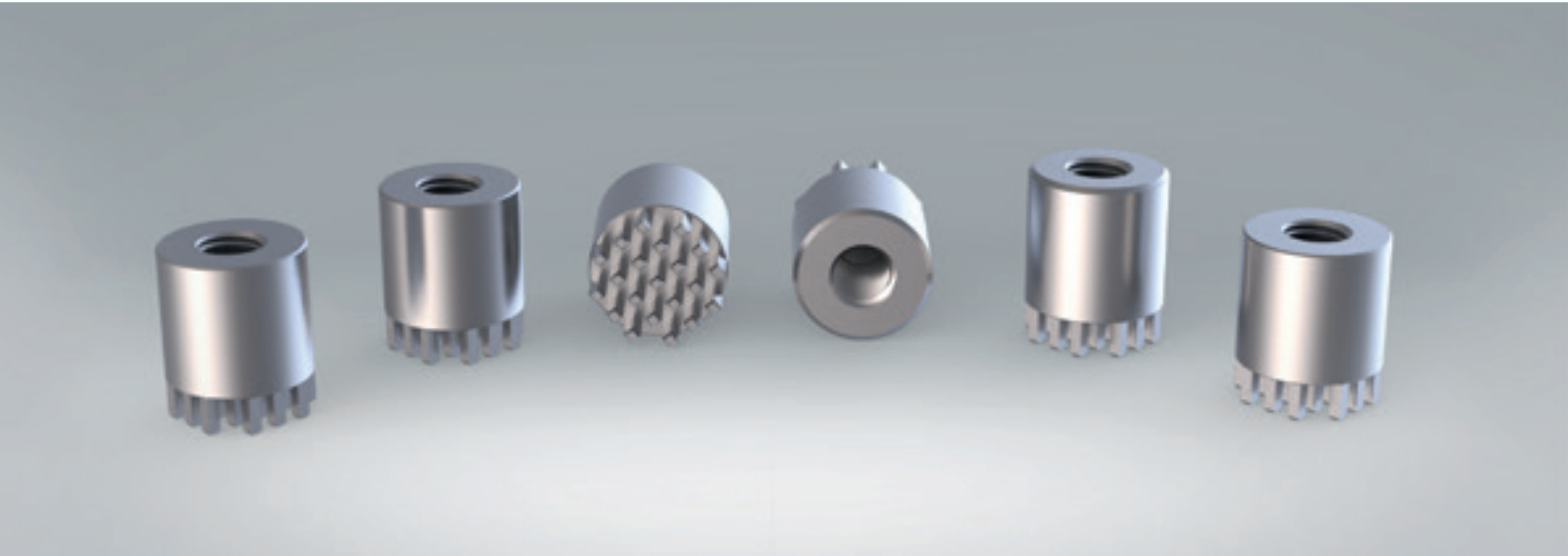
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	No. of pins/ drilling pattern	Mass [g]	Part number
M6	10.5	14	6.5	3.5	2.75	7.25	Ø10		12/B1	5.6	02.8.0004.ET
M6	10.5	14	6.5	3.5	2.75	7.25		Ø11	12/B1	5.62	02.8.0004
M6	11	14.5	7	3.5	2.6	7	Ø14.8		21/B2	12.8	02.8.0006.ET
M6	11	14.5	7	3.5	2.6	7		Ø16.2	21/B2	12.82	02.8.0006
M8	11	14.5	7	3.5	2.6	7	Ø14.8		21/B2	11.22	02.8.0007.ET
M8	11	14.5	7	3.5	2.6	7		Ø16.2	21/B2	11.24	02.8.0007
M8	15	18.5	8	3.5	5.25	-	Ø13		21/B2	12.63	02.8.0008.ET
M8	15	18.5	8	3.5	5.25	-		Ø14.25	21/B2	12.65	02.8.0008

Measurements B - J in mm
Masses are subject to slight variations in production



POWER SOCKET ROUND
INTERNAL THREAD, SOLID PRESS-FIT TECHNOLOGY,
PIN ARRANGEMENT FULL-SURFACE



PRODUCT SPECIFICATION

- High-current PCB connection
- UNC thread or customer-specific modifications on request
- For fastening cable lugs
- Direct connection of printed circuit board to housing outside particularly well suited
- Standard sizes on the right side in the table, customer specific solutions possible on request
- RoHS compliant, REACH compliant



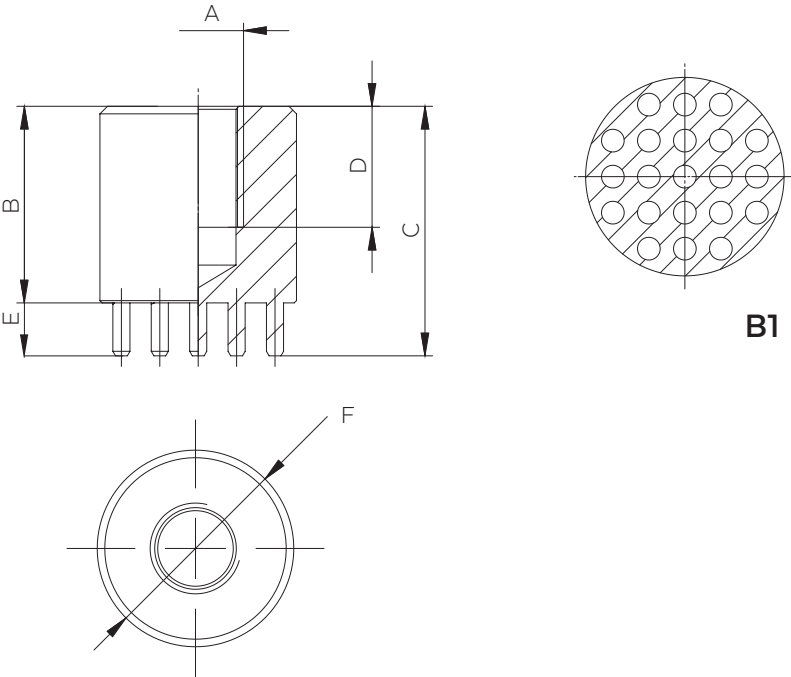
MATERIAL INFORMATION

Variant	Part Number
BlueBrass	02.8.00XX.BB



Our 02.8.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	No. of pins/ drilling pattern	Mass [g]	Part number
M6	13	16.5	8	3.5	Ø13	21/B1	13.93	02.8.0005
M6	12	15.5	8	3.5	Ø 13	21/B1	13.75	02.8.0010
M6	12	15.5	9	4.5	Ø13	21/B1	13.75	02.8.0011

Measurements B - F in mm
Masses are subject to slight variations in production



BROX BREAK TOWER
EXTERNAL THREAD, SEMI MASSIVE PRESS-FIT,
PINS AROUND EDGE



PRODUCT SPECIFICATION

- Pins yield slightly after press-fitting, reducing excess force transmission and circuit-board stress
- Comparable performance and resilience as known market solutions
- Performance and robustness identical with established solutions
- Ideally suited for use in e-vehicles, robotics, industrial automation, etc.
- With the proven fast, reliable MTCON service
- Cost attractive alternative surge
- Up to 40 % cost savings
- RoHS compliant, REACH compliant



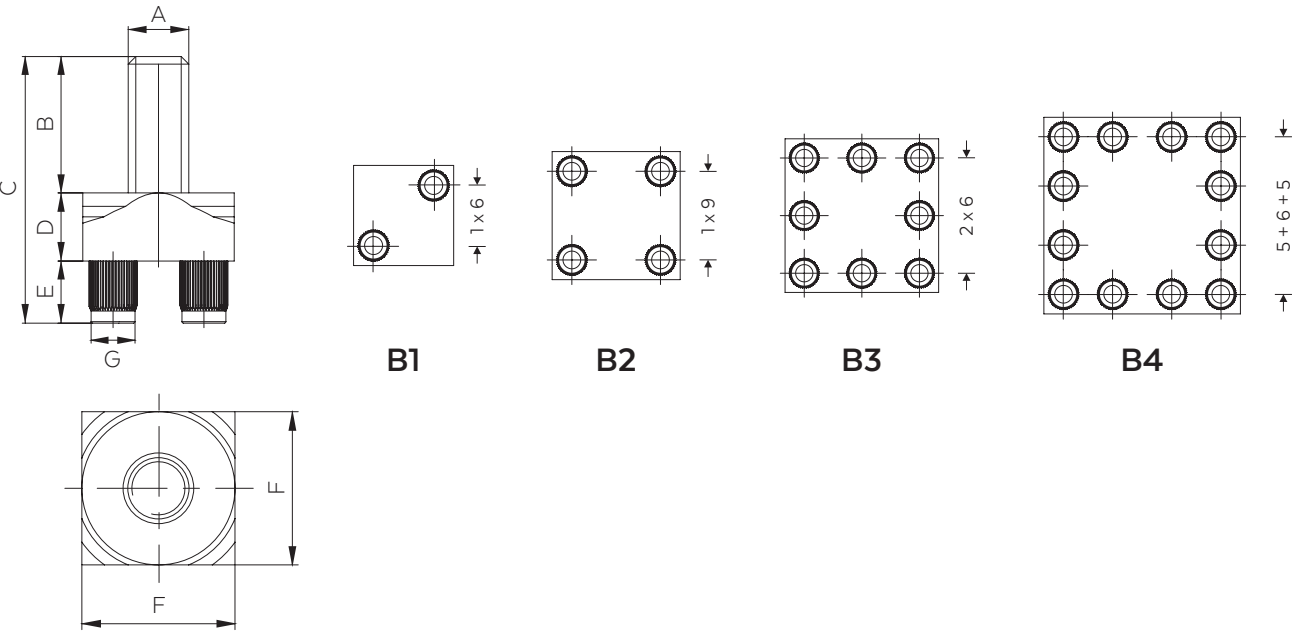
MATERIAL INFORMATION

Option	Part number
BlueBrass	01.4.000X.BB



Our 01.4.000X.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	G	No. of pins/ drilling pattern	Mass [g]	Part number
M4	9	17.6	4.5	4.1	10	Ø 2.9	2/B1	4.95 g	01.4.0001
M5	9	17.6	4.5	4.1	10	Ø 2.9	2/B1	5.49 g	01.4.0002
M5	11	20.6	5.5	4.1	13	Ø 2.9	4/B2	10.00 g	01.4.0003
M6	11	20.6	5.5	4.1	13	Ø 2.9	4/B2	10.81 g	01.4.0004
M6	14	24.6	6.5	4.1	16	Ø 2.9	8/B3	18.07 g	01.4.0005
M8	14	24.6	6.5	4.1	16	Ø 2.9	8/B3	20.67 g	01.4.0006
M8	17	28.6	7.5	4.1	20	Ø 2.9	12/B4	33.30 g	01.4.0007
M10	17	28.6	7.5	4.1	20	Ø 2.9	12/B4	37.37 g	01.4.0008
M12	17	28.6	7.5	4.1	20	Ø 2.9	12/B4	42.34 g	01.4.0009

Measurements B - G in mm
Masses are subject to slight variations in production



BROX BREAK SOCKET
SOCKET WITH INTERNAL THREAD, SEMI MASSIVE PRESS-FIT,
PINS AROUND EDGE



PRODUCT SPECIFICATION

- The pin yields slightly after pressing in, this reduces excess force transmission and stress on the printed circuit board
- Comparable performance and resilience as known market solutions
- High performance and robustness proven in customer and field tests
- Ideally suited for use in e-vehicles, robotics, industrial automation, etc.
- With the proven fast, reliable MTCON service
- Cost-attractive source alternative for known market solutions
- Up to 40 % cost savings
- RoHS compliant, REACH compliant



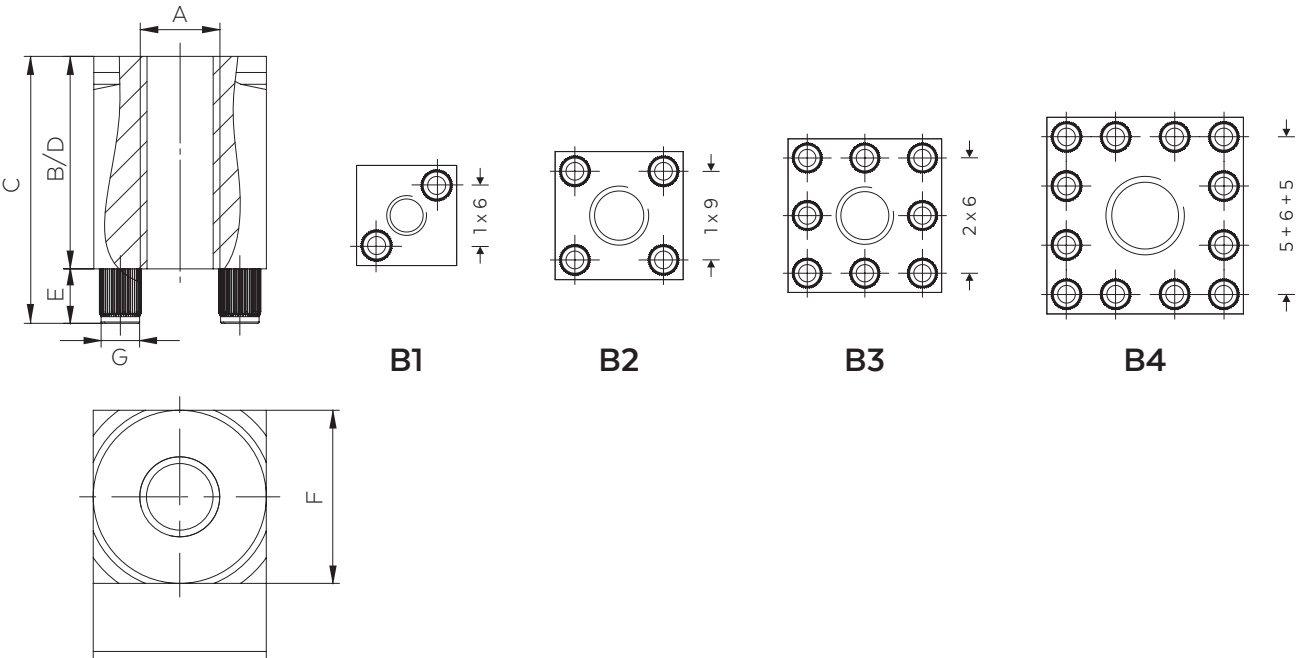
MATERIAL INFORMATION

Option	Part number
BlueBrass	02.4.00XX.BB



Our 02.4.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



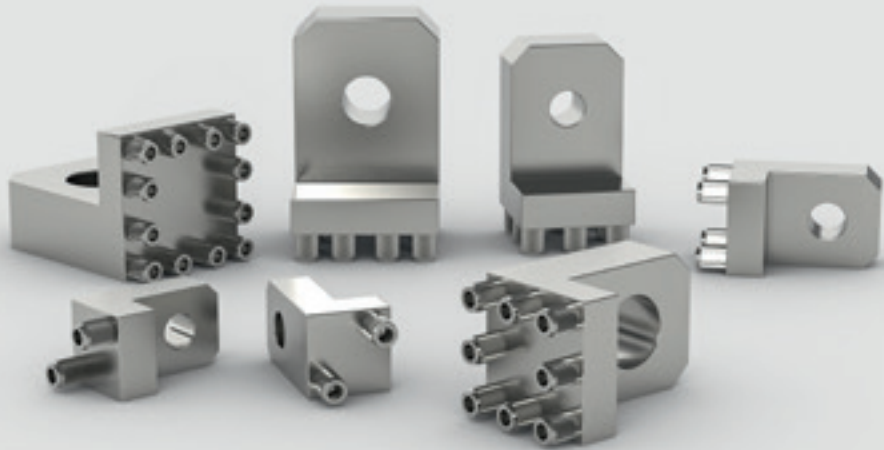
TECHNICAL DATA

A	B/D	C	E	F	G	No. of pins/ drilling pattern	Mass [g]	Part number
M6	13	17.1	4.1	10	Ø 2.9	2/B1	10.26 g	02.4.0001
M5	13	17.1	4.1	10	Ø 2.9	2/B1	9.68 g	02.4.0002
M5	16	20.1	4.1	13	Ø 2.9	4/B2	21.34 g	02.4.0003
M6	16	20.1	4.1	13	Ø 2.9	4/B2	20.56 g	02.4.0004
M6	20	24.1	4.1	16	Ø 2.9	8/B3	40.64 g	02.4.0005
M8	20	24.1	4.1	16	Ø 2.9	8/B3	37.85 g	02.4.0006
M8	24	28.1	4.1	20	Ø 2.9	12/B4	74.61 g	02.4.0007
M10	24	28.1	4.1	20	Ø 2.9	12/B4	70.46 g	02.4.0008
M12	24	28.1	4.1	20	Ø 2.9	12/B4	65.38 g	02.4.0009
M5	7	11.1	4.1	10	Ø 2.9	4/B2	5.66 g	02.4.0010

Measurements B – G in mm
Masses are subject to slight variations in production



BROX BREAK EDGE
ANGLED, SEMI MASSIVE PRESS-FIT,
PINS AROUND EDGE



PRODUCT SPECIFICATION

- The pin yields slightly after pressing in, this reduces excess force transmission and stress on the printed circuit board
- Comparable performance and resilience as known market solutions
- High performance and robustness proven in customer and field tests
- Ideally suited for use in e-vehicles, robotics, industrial automation, etc.
- With the proven fast, reliable MTCON service
- Cost-attractive source alternative for known market solutions
- Up to 40 % cost savings
- RoHS compliant, REACH compliant



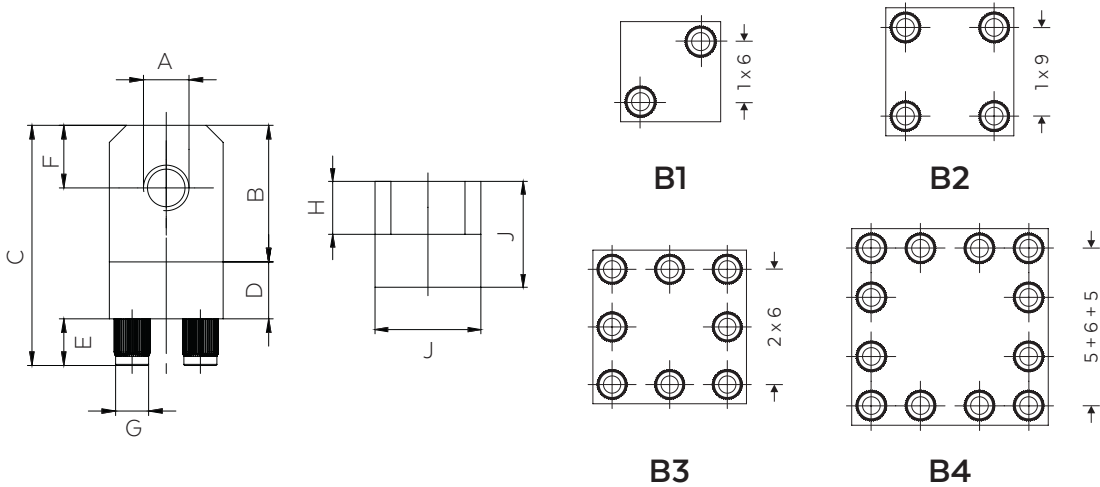
MATERIAL INFORMATION

Option	Part number
BlueBrass	03.4.X0XX.BB



Our 03.4.X0XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



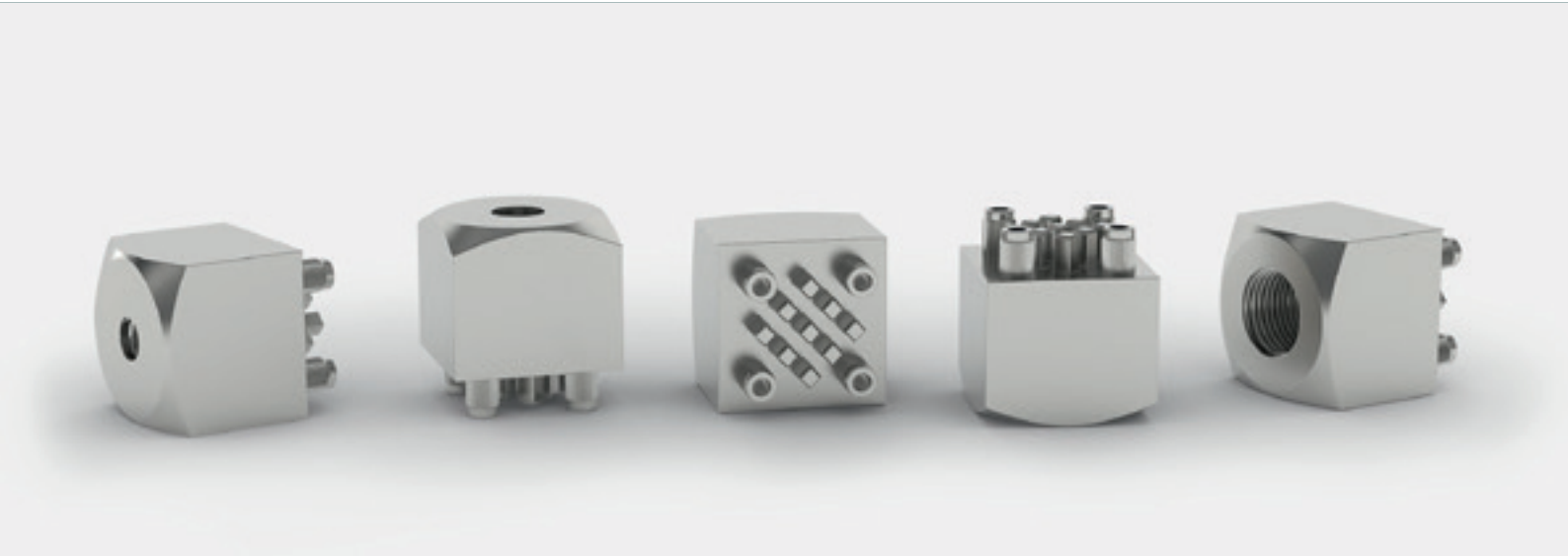
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	Polzahl/Bohrbild	Gewicht [in g]	Part number
M4	12	21.1	5	4.1	5.5	Ø 2.9	5	10	2/B1	9.22	03.4.0001
M5	12	21.1	5	4.1	5.5	Ø 2.9	5	10	2/B1	8.99	03.4.0002
M5	15	24.1	5	4.1	7	Ø 2.9	6.5	13	4/B2	17.63	03.4.0003
M6	15	24.1	8	4.1	7	Ø 2.9	6.5	13	4/B2	17.31	03.4.0004
M6	19	28.1	8	4.1	9	Ø 2.9	8	16	8/B3	31.13	03.4.0005
M8	19	28.1	10	4.1	9	Ø 2.9	8	16	8/B3	30.00	03.4.0006
M8	23	32.1	5	4.1	11.5	Ø 2.9	10	20	12/B4	54.22	03.4.0007
M10	23	32.1	5	4.1	11.5	Ø 2.9	10	20	12/B4	52.49	03.4.0008
Ø 4.3	12	21.1	5	4.1	5.5	Ø 2.9	5	10	2/B1	8.97	03.4.0009
Ø 5.3	12	21.1	5	4.1	5.5	Ø 2.9	5	10	2/B1	8.65	03.4.0010
Ø 5.3	15	24.1	8	4.1	7	Ø 2.9	6.5	13	4/B2	17.17	03.4.0011
Ø 6.4	15	24.1	8	4.1	7	Ø 2.9	6.5	13	4/B2	16.92	03.4.0012
Ø 6.4	19	28.1	5	4.1	9	Ø 2.9	8	16	8/B3	30.28	03.4.0013
Ø 8.4	19	28.1	5	4.1	9	Ø 2.9	8	16	8/B3	28.70	03.4.0014
Ø 8.4	23	32.1	5	4.1	11.5	Ø 2.9	10	20	12/B4	52.61	03.4.0015
Ø 10.5	23	31.1	5	4.1	11.5	Ø 2.9	10	20	12/B4	49.96	03.4.0016

Measurements B - J in mm
Masses are subject to slight variations in production



POWER SOCKET STRONG SERIES
SOCKET WITH FEMALE THREAD, SEMI-MASSIVE AND SOLID
PRESS-FIT TECHNOLOGY, PIN ARRANGEMENT ALL AROUND



PRODUCT SPECIFICATION

- The pin yields slightly after press-fit, this reduces excess force transmission and stress on the printed circuit board
- High performance and robustness proven in customer and field tests
- Ideally suited for use in e-vehicles, robotics, industrial automation, etc.
- With the proven fast, reliable MTCO service
- Designed for high torque requirements
- RoHS compliant, REACH compliant



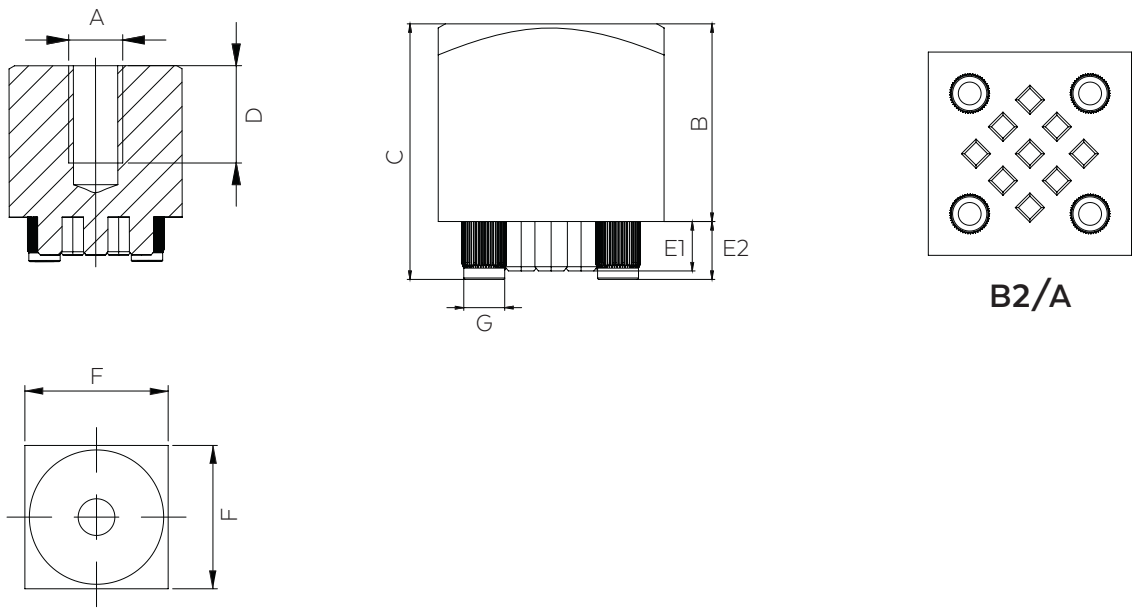
MATERIAL INFORMATION

Variant	Part Number
BlueBrass	02.9.00XX.BB



Our 02.9.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



TECHNICAL DATA

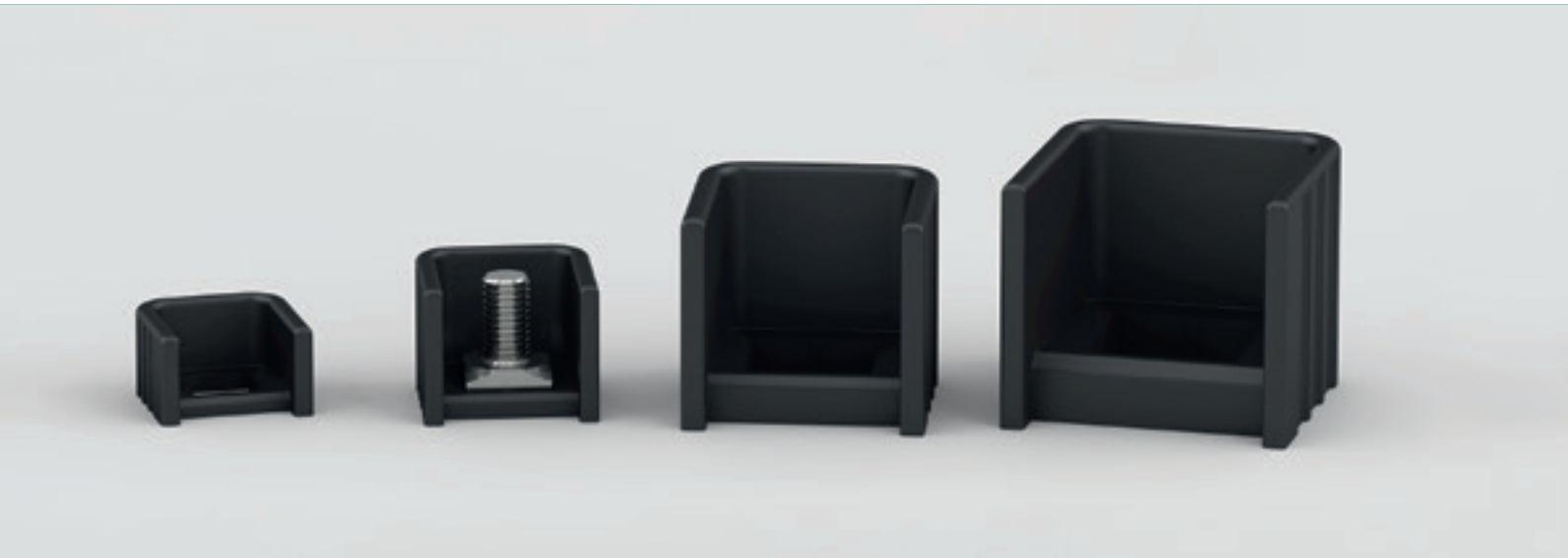
A	B	C	D	E1/E2	F	G	Polzahl/Bohrbild	Gewicht [in g]	Part number
M5	14	18.1	9	3.5/4.1	16	Ø 2.9	4+9/B2A	30.3 g	02.9.0006
M6	14	18.1	9	3.5/4.1	16	Ø 2.9	4+9/B2A	29.41 g	02.9.0007
M8	14	18.1	9	3.5/4.1	16	Ø 2.9	4+9/B2A	27.78 g	02.9.0008
M10	14	18.1	9	3.5/4.1	16	Ø 2.9	4+9/B2A	25.76 g	02.9.0009

Measurements B - G in mm
Masses are subject to slight variations in production

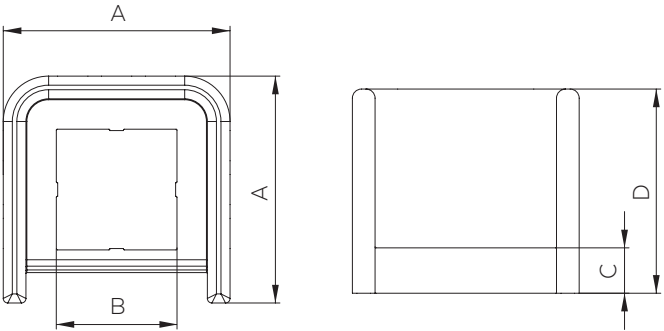


POWER PROTECTOR

FOR PROTECTING POWER TOWERS AND POWER SOCKETS



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Designed to fit on all Power Tower and Power Socket elements
- Prevents short circuits with nearby components
- Protects against contact and twisting
- Enables shorter distancing of power elements
- RoHS compliant, REACH compliant



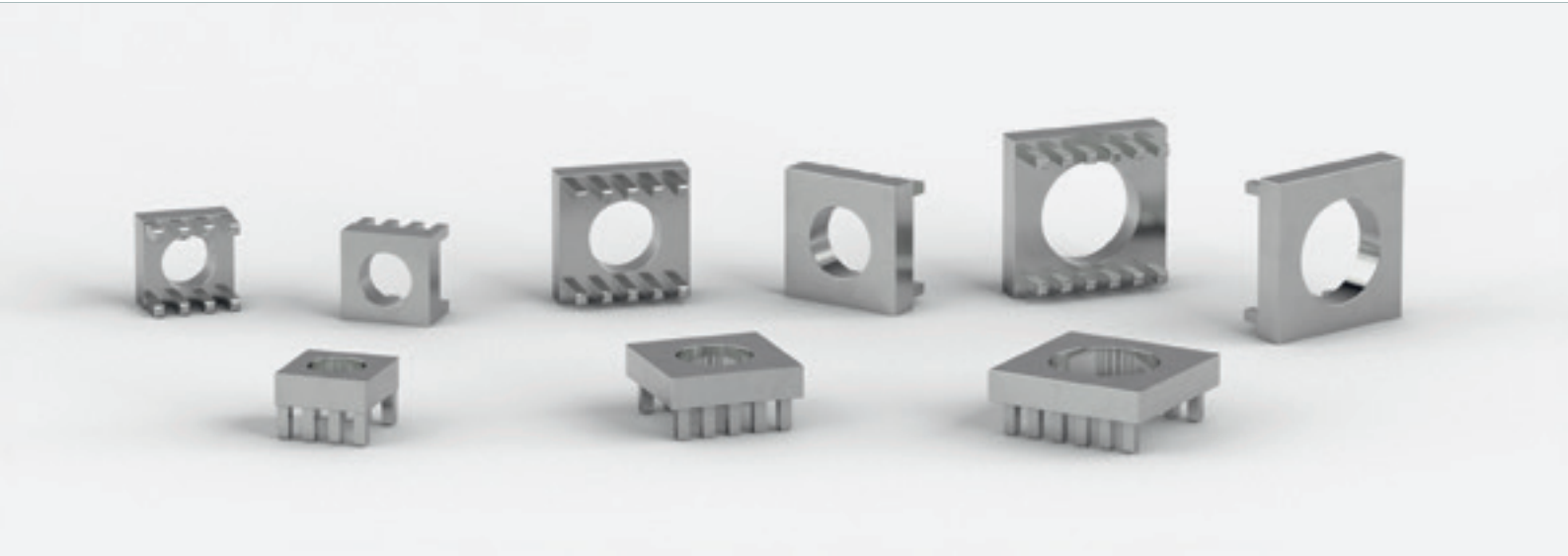
TECHNICAL DATA

A	B	C	D	For use with (Power Tower, Power Socket)	Part number
16	7	2	9.5	7, basic size	01.0.0001
18	9	2.5	14.5	9, basic size	01.0.0002
25	13	5	22.5	13, basic size	01.0.0003
30	16	7	26	16, basic size	01.0.0004

Measurements A - D in mm



POWER 2 GROUND
TWO-PIECE, BASE BODY, PINS IN TWO ROWS



PRODUCT SPECIFICATION

- High-current PCB connection
- Protection of PCB against mechanical stresses
- For fastening cable lugs and large, heavy components such as battery isolating switches
- Contact spacing 2.54 mm
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

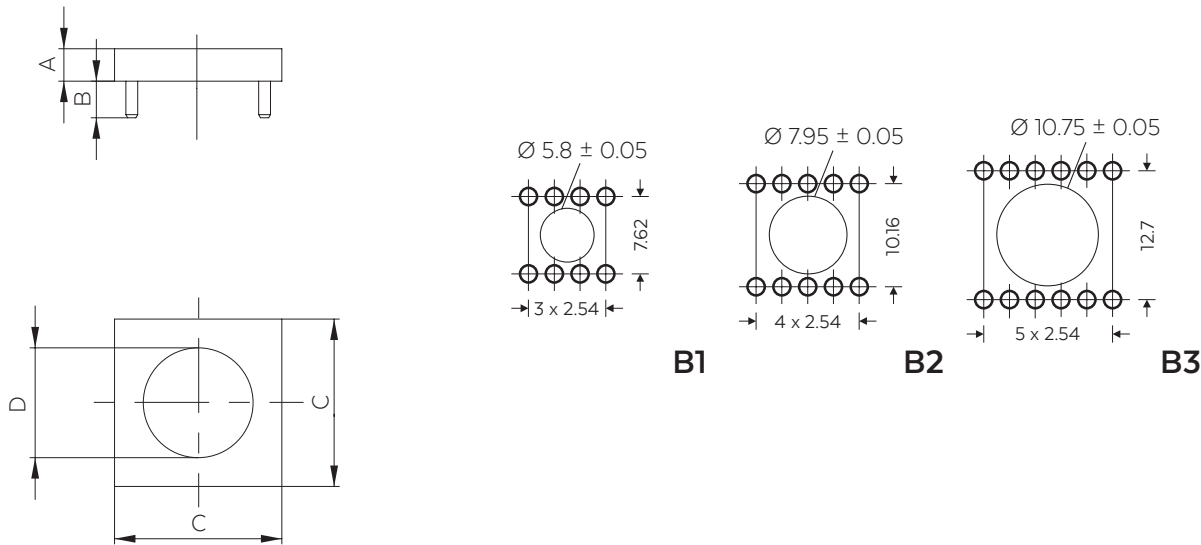
MATERIAL INFORMATION

Option	Part number
BlueBrass	09.1.00XX.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 09.1.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



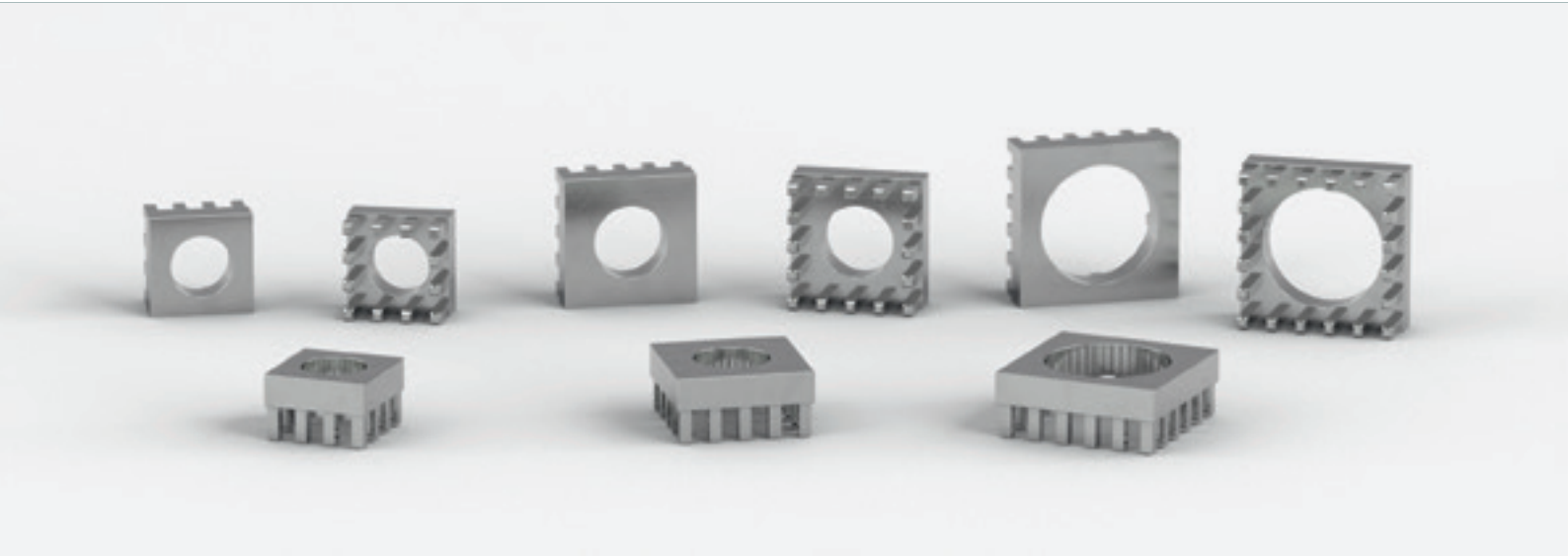
TECHNICAL DATA

A	B	C	D	No. of pins/ drilling pattern	Mass [g]	Part number
3,1	3,5	9	Ø 5,5	8/B1	1,8	09.1.0001
3,1	3,5	13	Ø 7,3	10/B2	3,7	09.1.0002
3,1	3,5	16	Ø 10,5	12/B3	4,89	09.1.0003
3,1	3,5	16	Ø 9,8	12/B3	5,18	09.1.0004

Measurements A - D in mm
Masses are subject to slight variations in production



POWER 2 GROUND
TWO-PIECE, BASE BODY, PINS AROUND EDGE



PRODUCT SPECIFICATION

- High-current PCB connection
- Protection of PCB against mechanical stresses
- For fastening cable lugs and large, heavy components such as battery isolating switches
- Contact spacing 2.85 mm
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

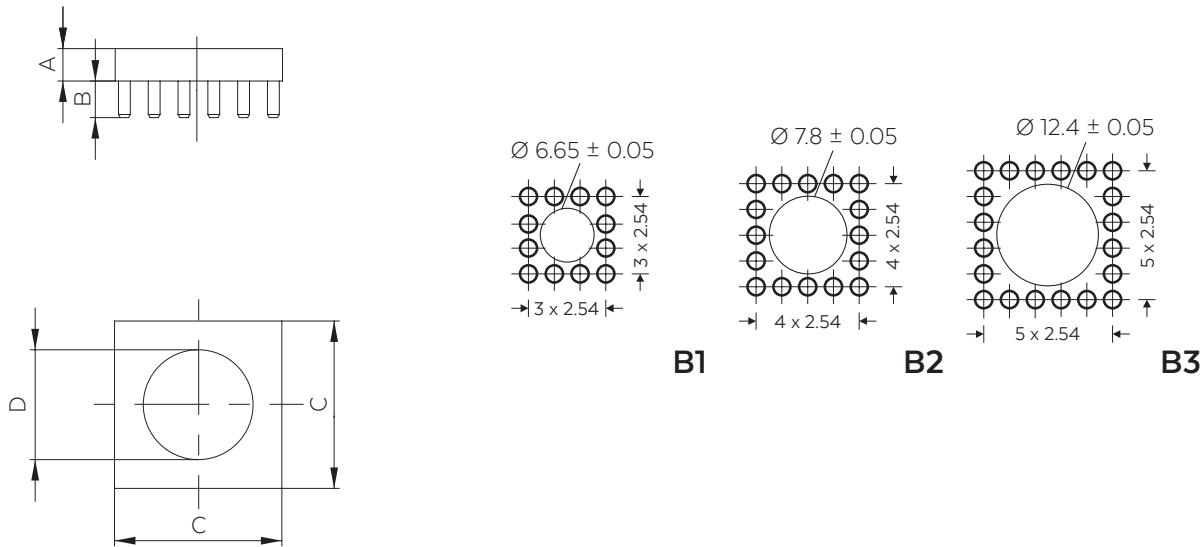
MATERIAL INFORMATION

Option	Part number
BlueBrass	09.2.00XX.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 09.2.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



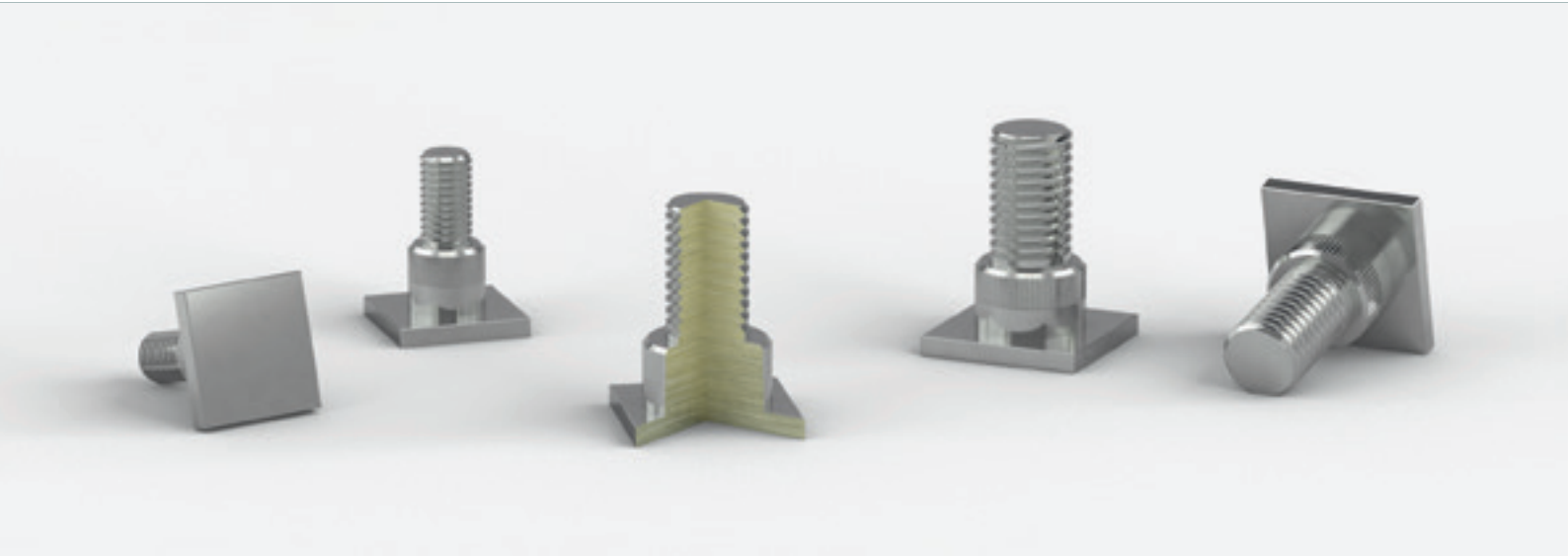
TECHNICAL DATA

A	B	C	D	No. of pins/ drilling pattern	Mass [g]	Part number
3,1	3,5	10	Ø 6,2	12/B1	2,27	09.2.0001
3,1	3,5	13	Ø 7,3	16/B2	3,93	09.2.0002
3,1	3,5	16	Ø 12	20/B3	4,49	09.2.0003

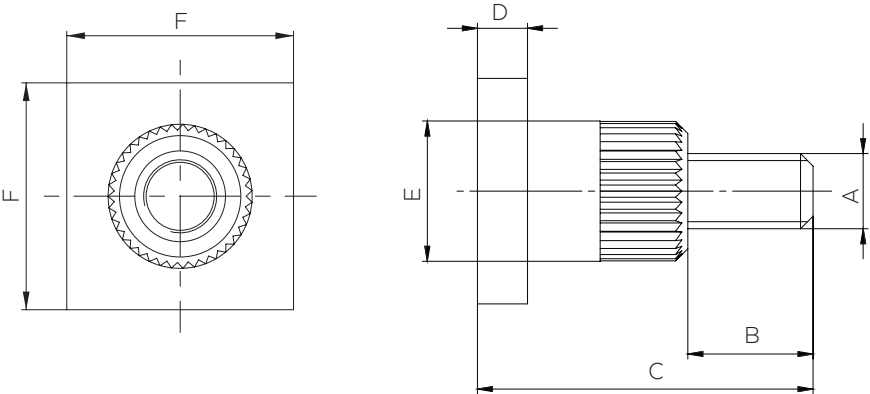
Measurements A - D in mm
Masses are subject to slight variations in production



POWER 2 TOWER
TWO-PIECE, EXTERNAL THREAD



SCALE DRAWINGS



PRODUCT SPECIFICATION

- For press-fitting into base
- UNC thread or customized changes on demand
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant, REACH compliant



MATERIAL INFORMATION

Option	Part number
BlueBrass	09.3.00XX.BB



Our 09.3.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

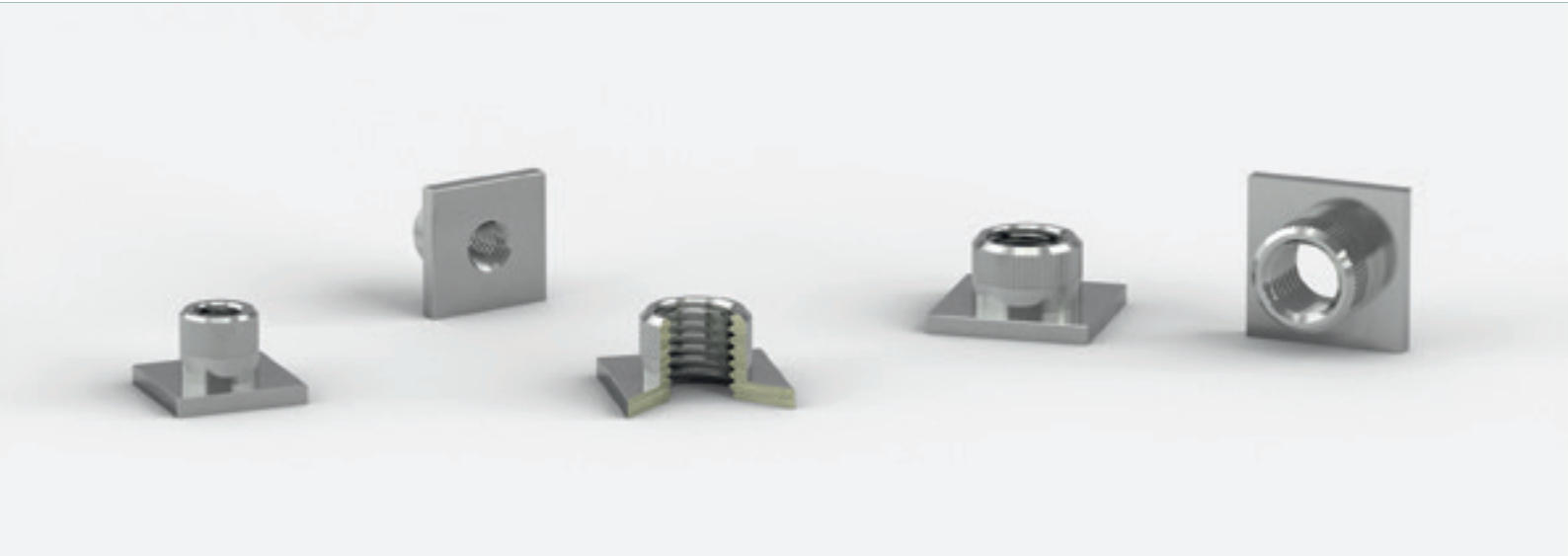
TECHNICAL DATA

A	B	C	D	E	F	Mass [g]	Matching base body	Part number
M3	5	13.4	2	Ø 5.6	9	2.91	09.1.0001	09.3.0001
M3	6	14.4	2	Ø 6.35	10	3.67	09.2.0001	09.3.0002
M3	6	14.4	2	Ø 5.6	9	3.25	09.1.0001	09.3.0003
M4	6	14.4	2	Ø 6.35	10	3.95	09.2.0001	09.3.0004
M5	8	16.4	2	Ø 7.45	13	6.43	09.1.0002, 09.2.0002	09.3.0005
M5	9	17.4	2	Ø 6.35	10	4.8	09.2.0001	09.3.0006
M6	10	18.4	2	Ø 7.45	13	7.49	09.1.0002, 09.2.0002	09.3.0007
M8	13	21.4	2	Ø 12.15	16	15.95	09.2.0003	09.3.0008
M8	13	21.4	2	Ø 10.65	16	14.51	09.1.0003	09.3.0009
M4	8	16.4	2	Ø 7.45	13	5.96	09.1.0002, 09.2.0002	09.3.0010
M10	13	21.4	2	Ø 12.15	16	19.05	09.2.0003	09.3.0011
M8	13	21.4	2	Ø 10	16	13.95	09.1.0004	09.3.0012

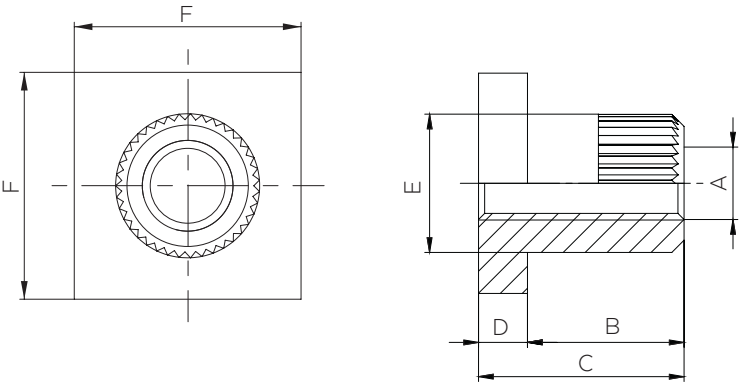
Measurements B - F in mm
Masses are subject to slight variations in production



POWER 2 SOCKET
TWO-PIECE, INTERNAL THREAD



SCALE DRAWINGS



PRODUCT SPECIFICATION

- For press-fitting into base
- UNC thread or customized changes on demand
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

MATERIAL INFORMATION

Option	Part number
BlueBrass	09.4.00XX.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 09.4.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

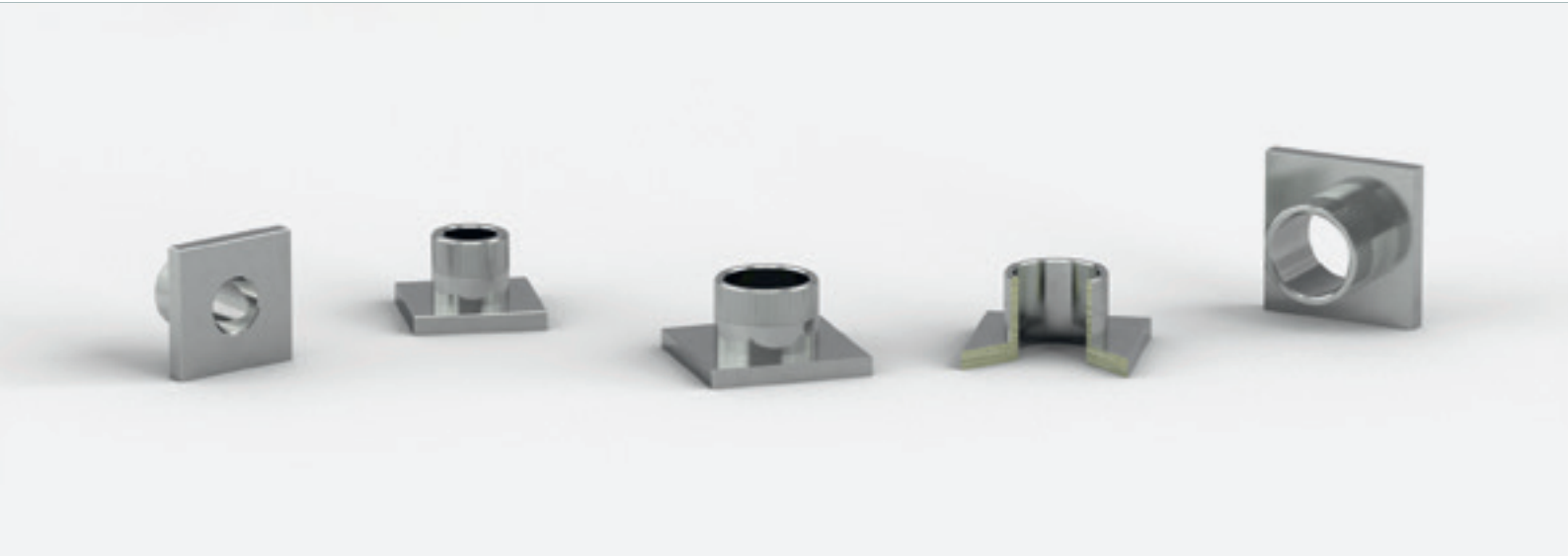
TECHNICAL DATA

A	B	C	D	E	F	Mass [g]	Matching base body	Part number
M3	6.4	8.4	2	Ø 5.65	9	2.31	09.1.0001	09.4.0001
M3	6.4	8.4	2	Ø 6.35	10	2.98	09.2.0001	09.4.0002
M4	6.4	8.4	2	Ø 5.65	9	2.03	09.1.0001	09.4.0003
M4	6.4	8.4	2	Ø 6.35	10	2.7	09.2.0001	09.4.0004
M4	6.4	8.4	2	Ø 7.45	13	4.5	09.1.0002, 09.2.0002	09.4.0005
M5	6.4	8.4	2	Ø 6.35	10	2.32	09.2.0001	09.4.0006
M5	6.4	8.4	2	Ø 7.45	13	4.11	09.1.0002, 09.2.0002	09.4.0007
M6	6.4	8.4	2	Ø 7.45	13	3.66	09.1.0002, 09.2.0002	09.4.0008
M8	6.4	8.4	2	Ø 10.65	16	6.36	09.1.0003	09.4.0009
M8	6.4	8.4	2	Ø 12.15	16	7.79	09.2.0003	09.4.0010
M10	6.4	8.4	2	Ø 12.15	16	6.28	09.2.0003	09.4.0012

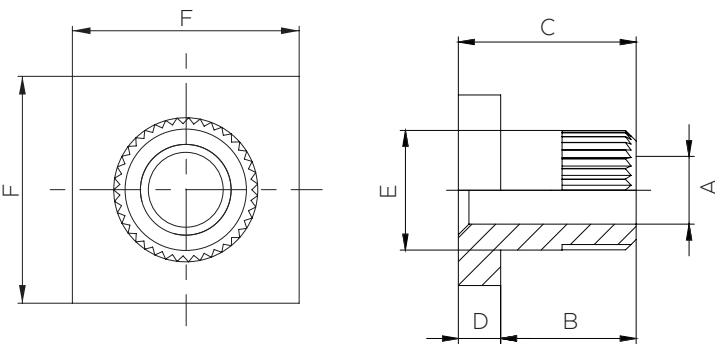
Measurements B - E in mm
Masses are subject to slight variations in production



POWER 2 SOCKET
TWO-PIECE, THROUGH HOLE



SCALE DRAWINGS



PRODUCT SPECIFICATION

- For press-fitting into base
- Customized changes on demand
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant, REACH compliant



MATERIAL INFORMATION

Option	Part number
BlueBrass	09.5.00XX.BB



Our 09.5.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

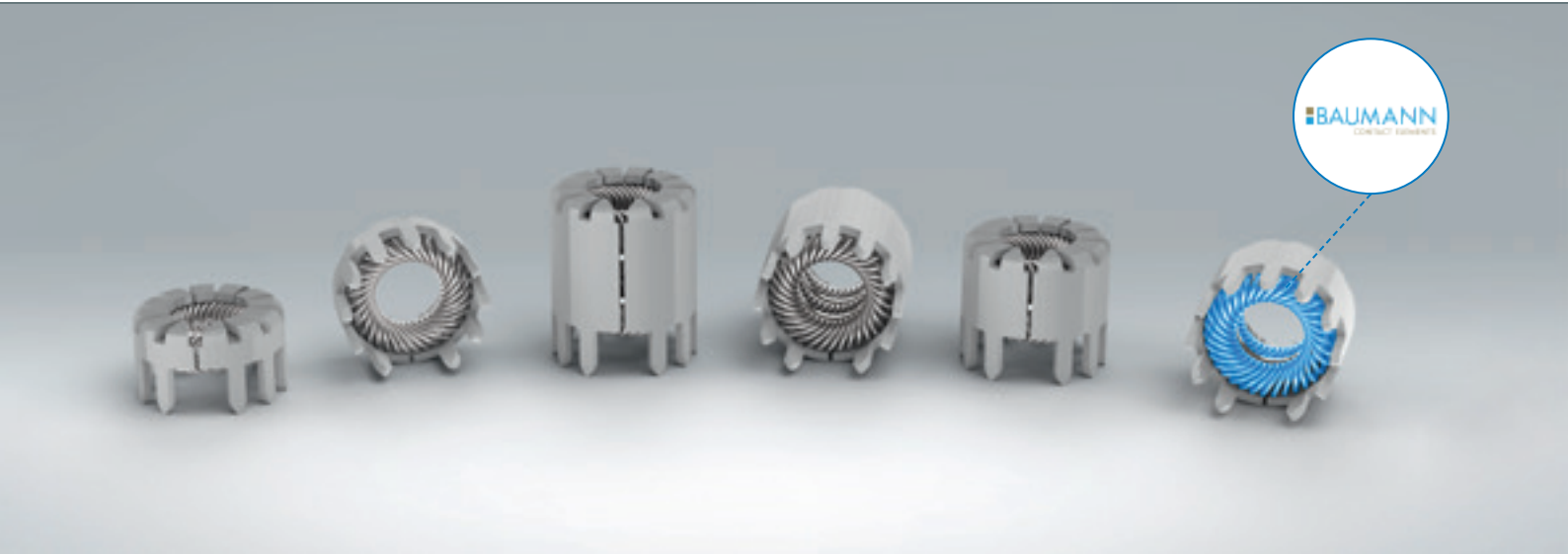
TECHNICAL DATA

A	B	C	D	E	F	Mass [g]	Matching base body	Part number
Ø 3.2	6.4	8.4	2	Ø 5.65	9	2.07	09.1.0001	09.5.0001
Ø 4.2	6.4	8.4	2	Ø 6.35	10	2.32	09.2.0001	09.5.0002
Ø 4.2	6.4	8.4	2	Ø 7.45	13	4.12	09.1.0002, 09.2.0002	09.5.0003
Ø 4.2	6.4	8.4	2	Ø 5.65	9	2.07	09.1.0001	09.5.0004
Ø 5.2	6.4	8.4	2	Ø 6.35	10	1.79	09.2.0001	09.5.0005
Ø 5.2	6.4	8.4	2	Ø 7.45	13	3.59	09.1.0002, 09.2.0002	09.5.0006
Ø 6.2	6.4	8.4	2	Ø 7.45	13	2.95	09.1.0002, 09.2.0002	09.5.0007
Ø 8.2	6.4	8.4	2	Ø 10.65	16	5.23	09.1.0003	09.5.0008
Ø 8.2	6.4	8.4	2	Ø 10	16	4.67	09.1.0004	09.5.0009
Ø 10.2	6.4	8.4	2	Ø 12.15	16	4.6	09.2.0003	09.5.0010
Ø 8.2	6.4	8.4	2	Ø 12.15	16	6.66	09.2.0003	09.5.0011
Ø 6.2	6.4	8.4	2	Ø 10.65	16	6.84	09.1.0003	09.5.0012
Ø 3.2	6.4	8.4	2	Ø 6.35	10	2.74	09.2.0001	09.5.0013

Measurements A - F in mm
Masses are subject to slight variations in production



POWER CROWN
PRESS-FIT IN MASSIVE PRESS-FIT ZONE



PRODUCT SPECIFICATION

- Highly robust PCB connection for high current, high temperature and continuous load applications
- Small component size, robust press-fit connection, spring supported vibration compensation
- In modern press-fit technology
- With one or two spiral springs
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

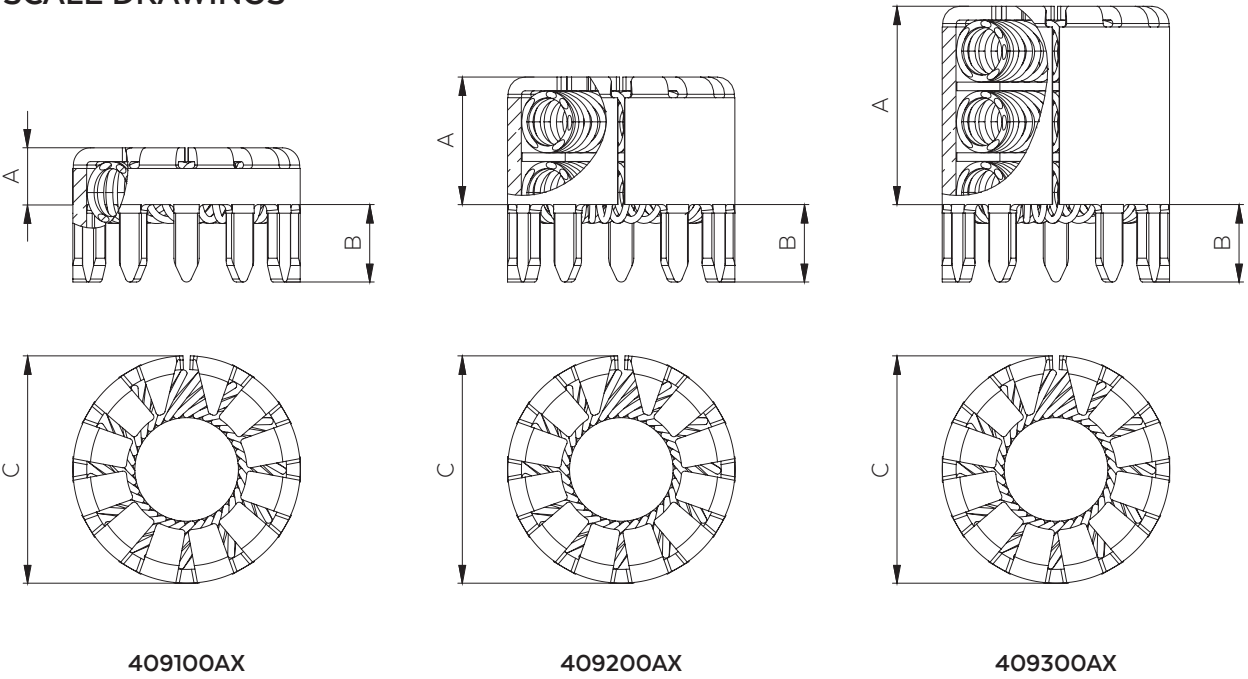
ELV
END-OF-LIFE-VEHICLES

MATERIAL INFORMATION

Option	Part number
Tin*	409X00AA
Silver*	409X00AB

*Spiral spring/washer material

SCALE DRAWINGS



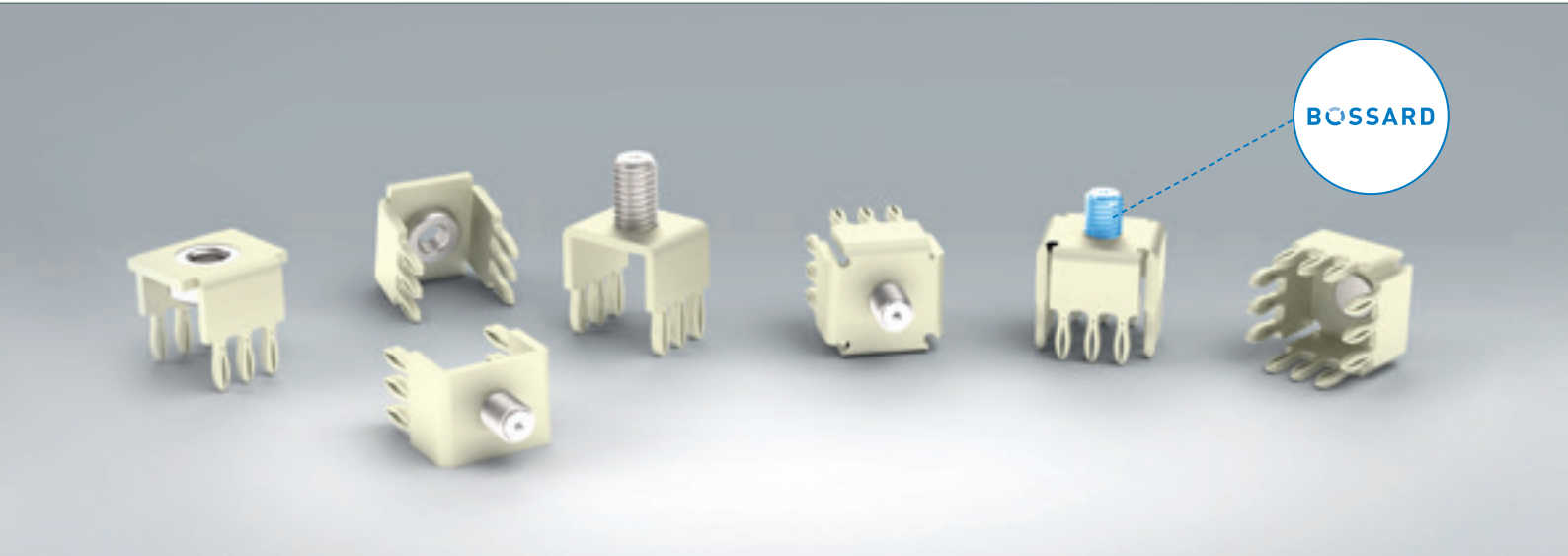
TECHNICAL DATA

A	B	C	Number of springs	Part number
3.3	4.5	Ø 13.2	1	409100AX
7.4	4.5	Ø 13.2	2	409200AX
11.5	4.5	Ø 13.2	3	409300AX

Measurements A - C in mm



BIZON BLOCK
POWER TOWER IN FLEXIBLE PRESS-FIT ZONE



PRODUCT SPECIFICATION

- Mechanical stability, high retaining force, and high contact reliability, even with high loads.
- Transmission of high currents (up to 70 A per contact) at high temperatures with large contacts in standard circuit boards
- Efficient miniaturization with smallest contacts and small bores in thin circuit boards
- High plasticity and elasticity for maximum flexibility in the choice of circuit board materials
- Can be customized to meet individual material, size, and force requirements
- IEC 60352-5 tested press-fit zone, standardized, tested, certified
- RoHS compliant, REACH compliant

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

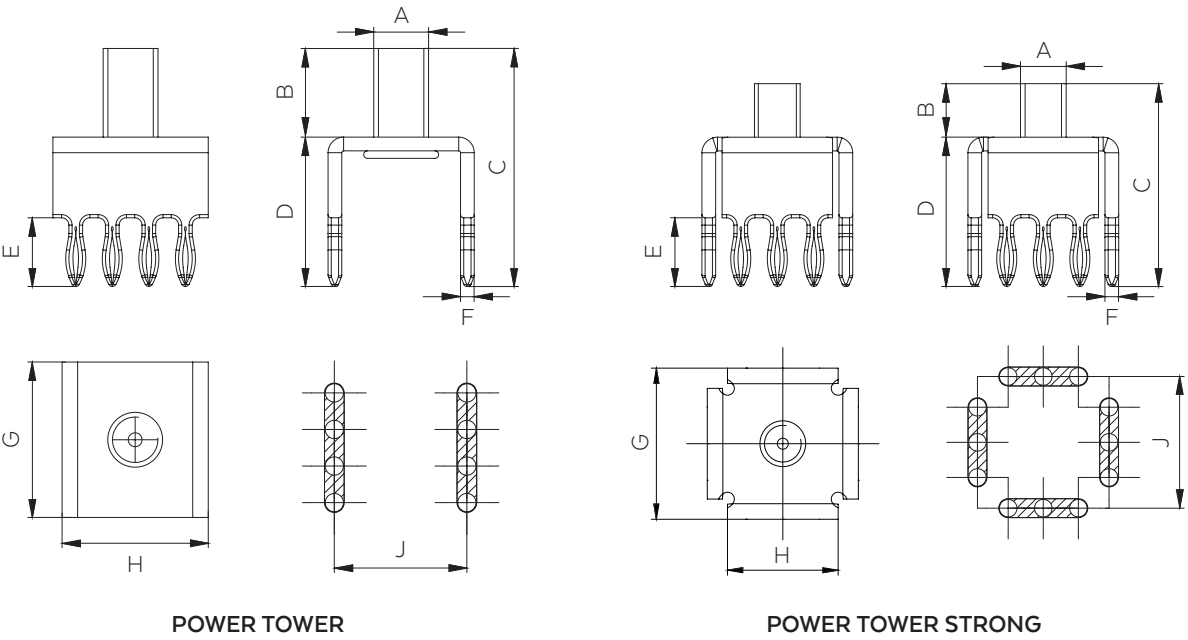
MATERIAL INFORMATION

Option	Part number
BlueBrass	16.1.00XX.BB

REACH
RoHS
COMPLIANT
NEW VERSION

Our 16.1.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



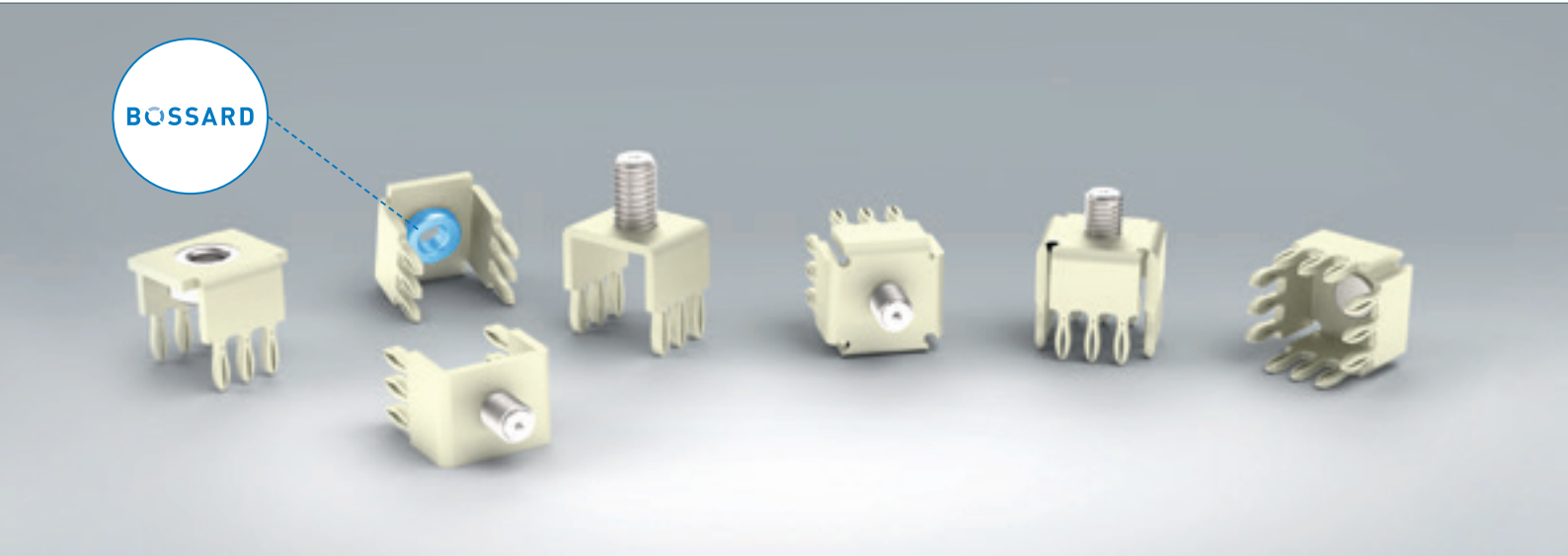
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	Model	Part number
M5	5.85	16.31	22.16	7.5	1.5	12.6	16	14.5	Power Tower	16.1.0003
M6	9.68	16.31	25.99	7.5	1.5	17	16	14.5	Power Tower	16.1.0004
M5	5.85	16.31	22.16	7.5	1.5	16.5	12.1	15	Power Tower Strong	16.1.0013

Measurements B - J in mm



BIZON BLOCK
POWER SOCKET IN FLEXIBLE PRESS-FIT ZONE



PRODUCT SPECIFICATION

- Mechanical stability, high retaining force, and high contact reliability, even with high loads.
- Transmission of high currents (up to 70 A per contact) at high temperatures with large contacts in standard circuit boards
- Efficient miniaturization with smallest contacts and small bores in thin circuit boards
- High plasticity and elasticity for maximum flexibility in the choice of circuit board materials
- Can be customized to meet individual material, size, and force requirements
- IEC 60352-5 tested press-fit zone, standardized, tested, certified
- RoHS compliant, REACH compliant



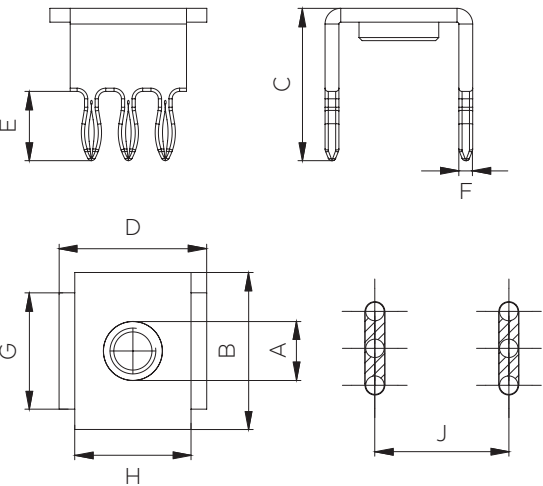
MATERIAL INFORMATION

Option	Part number
BlueBrass	16.2.00XX.BB



Our 16.2.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



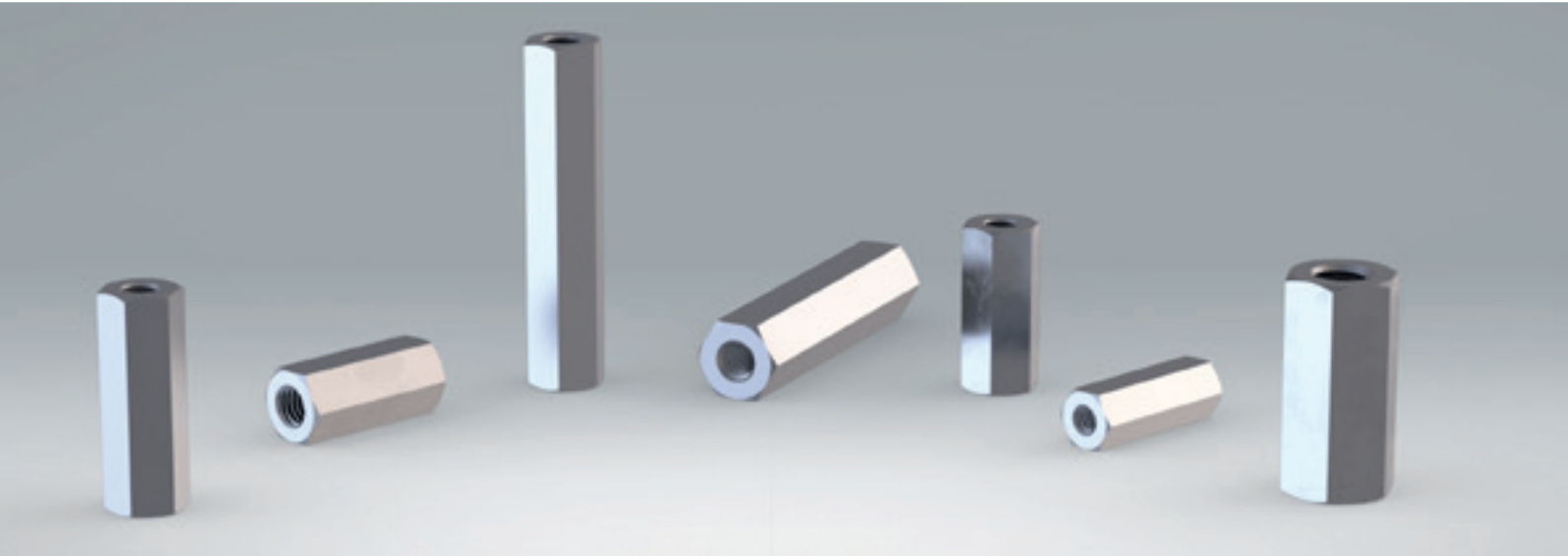
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	Model	Part number
M5	17	16.5	16	7.5	1.5	12.6	12.6	14.5	Power Socket	16.2.0003
M6	17	16.5	16	7.5	1.5	12.6	12.6	14.5	Power Socket	16.2.0004

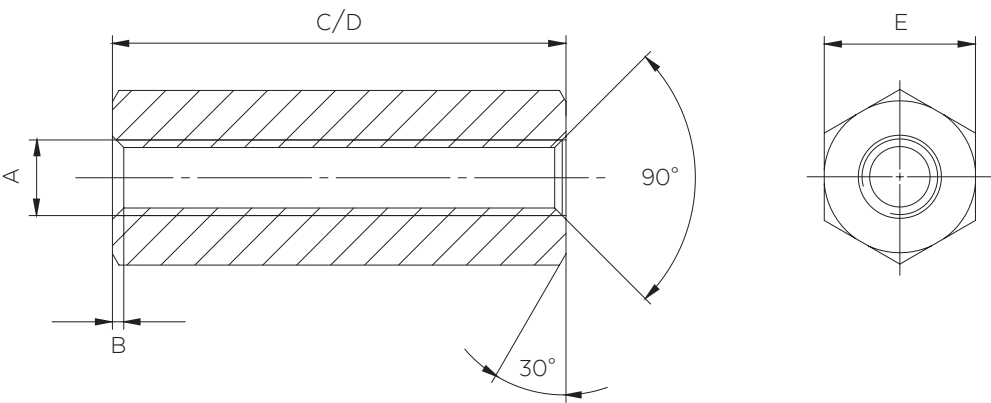
Measurements B - J in mm



POWER SPACER
INTERNAL-INTERNAL, M2, FULL-LENGTH



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN EN ISO 4042 E1E)	06.1.000X

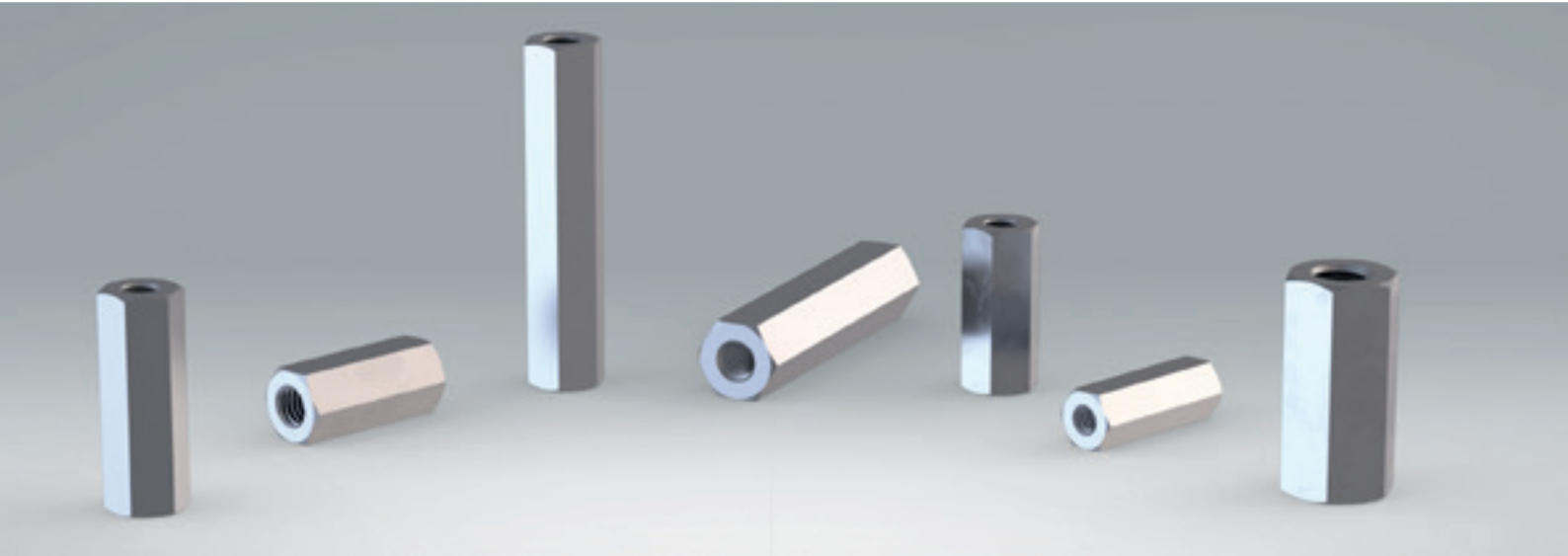
TECHNICAL DATA

A	B	C/D	E	Part number
M2	0.3	3.5	SW4	06.1.0001
M2	0.3	4	SW4	06.1.0002
M2	0.3	5	SW4	06.1.0003
M2	0.3	6	SW4	06.1.0004
M2	0.3	7	SW4	06.1.0005
M2	0.3	8	SW4	06.1.0006
M2	0.3	9	SW4	06.1.0007
M2	0.3	10	SW4	06.1.0008
M2	0.3	14.5	SW4	06.1.0009

Measurements B - D in mm



POWER SPACER
INTERNAL-INTERNAL, M2.5, FULL-LENGTH



PRODUCT SPECIFICATION

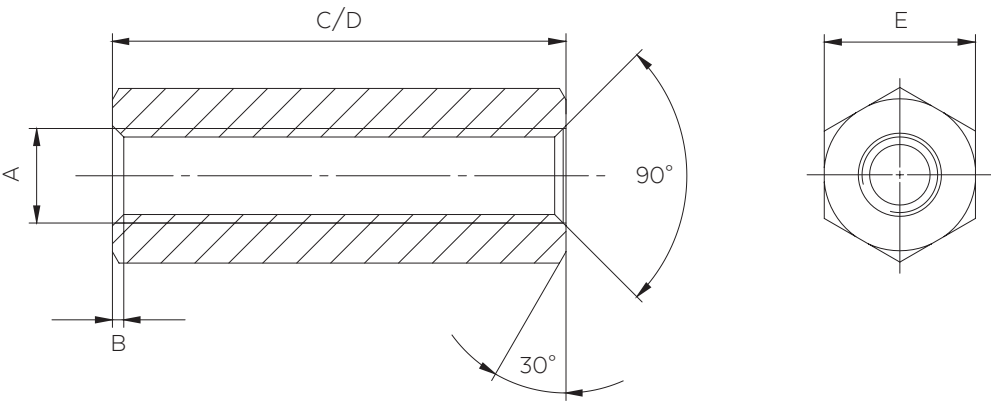
- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (DIN 267 E1E 3 µm)	06.1.02XX

SCALE DRAWINGS



TECHNICAL DATA

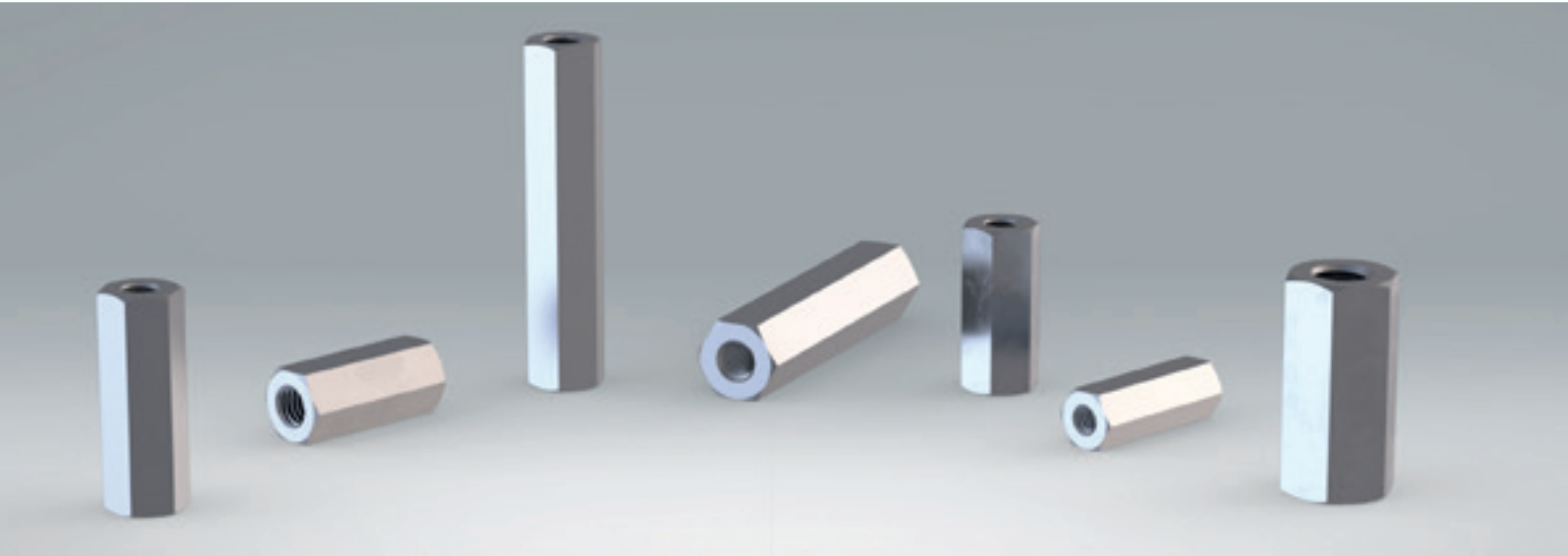
A	B	C/D	E	Part number
M2.5	0.3	3	SW4	06.1.0201
M2.5	0.3	4	SW4	06.1.0202
M2.5	0.3	4.7	SW4	06.1.0203
M2.5	0.3	5	SW4	06.1.0204
M2.5	0.3	5.3	SW4	06.1.0205
M2.5	0.3	6	SW4	06.1.0206
M2.5	0.3	6.3	SW4	06.1.0207
M2.5	0.3	6.5	SW4	06.1.0208
M2.5	0.3	7	SW4	06.1.0209
M2.5	0.3	7.7	SW4	06.1.0210
M2.5	0.3	8	SW4	06.1.0211

A	B	C/D	E	Part number
M2.5	0.3	8.5	SW4	06.1.0212
M2.5	0.3	9	SW4	06.1.0213
M2.5	0.3	10	SW4	06.1.0214
M2.5	0.3	11	SW4	06.1.0215
M2.5	0.3	11.5	SW4	06.1.0216
M2.5	0.3	12	SW4	06.1.0217
M2.5	0.3	12.5	SW4	06.1.0218
M2.5	0.3	13	SW4	06.1.0219
M2.5	0.3	13.5	SW4	06.1.0220
M2.5	0.3	14	SW4	06.1.0221
M2.5	0.3	15	SW4	06.1.0222

Measurements B - D in mm



POWER SPACER
INTERNAL-INTERNAL, M2.5, FULL-LENGTH



PRODUCT SPECIFICATION

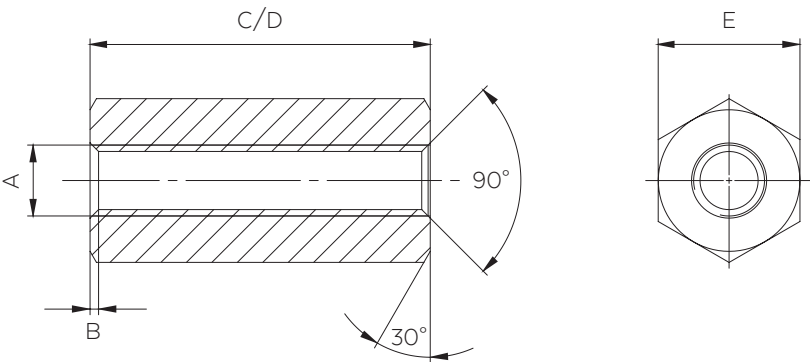
- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (DIN 267 E1E gal. Ni 3)	06.1.030X

SCALE DRAWINGS



TECHNICAL DATA

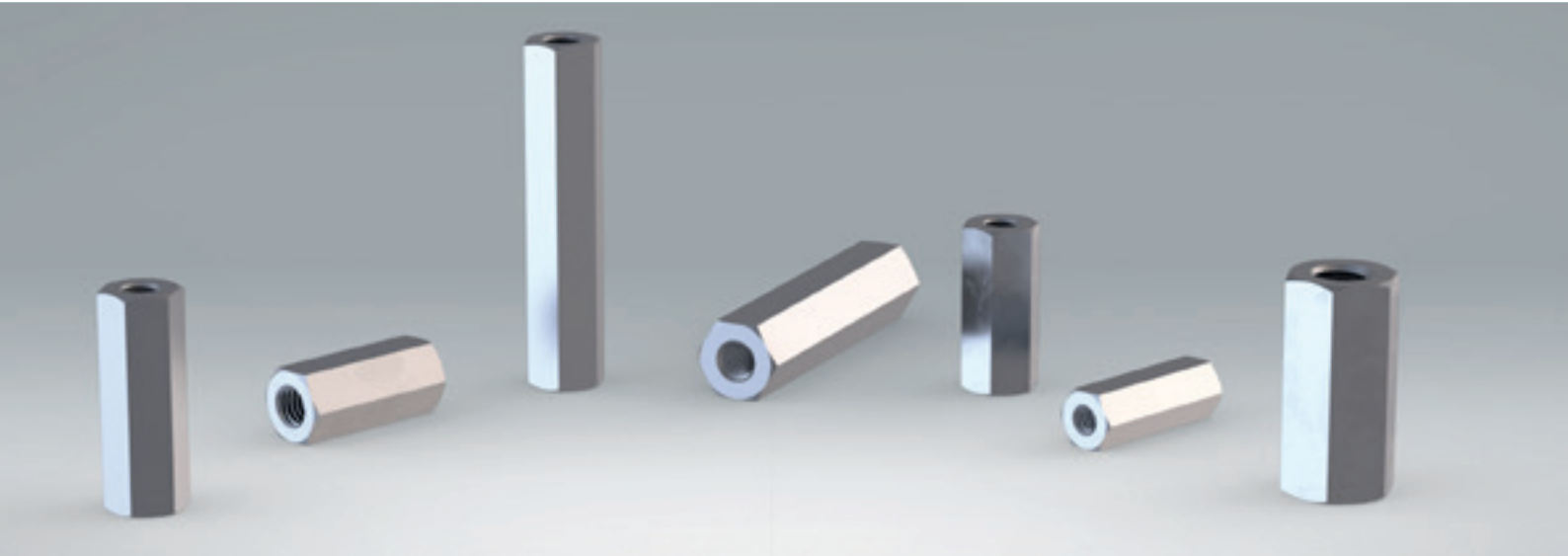
A	B	C/D	E	Part number
M2.5	0.3	3	SW5	06.1.0301
M2.5	0.3	4	SW5	06.1.0302
M2.5	0.3	5	SW5	06.1.0303
M2.5	0.3	7.5	SW5	06.1.0304
M2.5	0.3	9	SW5	06.1.0305
M2.5	0.3	9.5	SW5	06.1.0306
M2.5	0.3	10	SW5	06.1.0307
M2.5	0.3	12.7	SW5	06.1.0308
M2.5	0.3	13.5	SW5	06.1.0309

Measurements B - D in mm



POWER SPACER

INTERNAL-INTERNAL, M2.5, FULL-LENGTH



PRODUCT SPECIFICATION

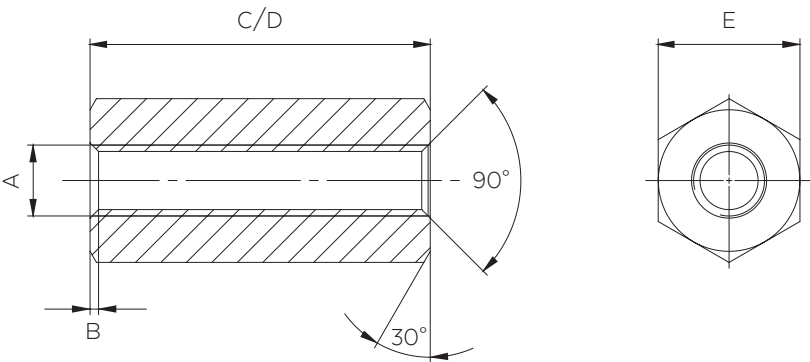
- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Steel 95MnPb28K	galvanized, yellow chromated (DIN 267 A3G, Fe/Zn 8 cC)	06.1.400X

SCALE DRAWINGS



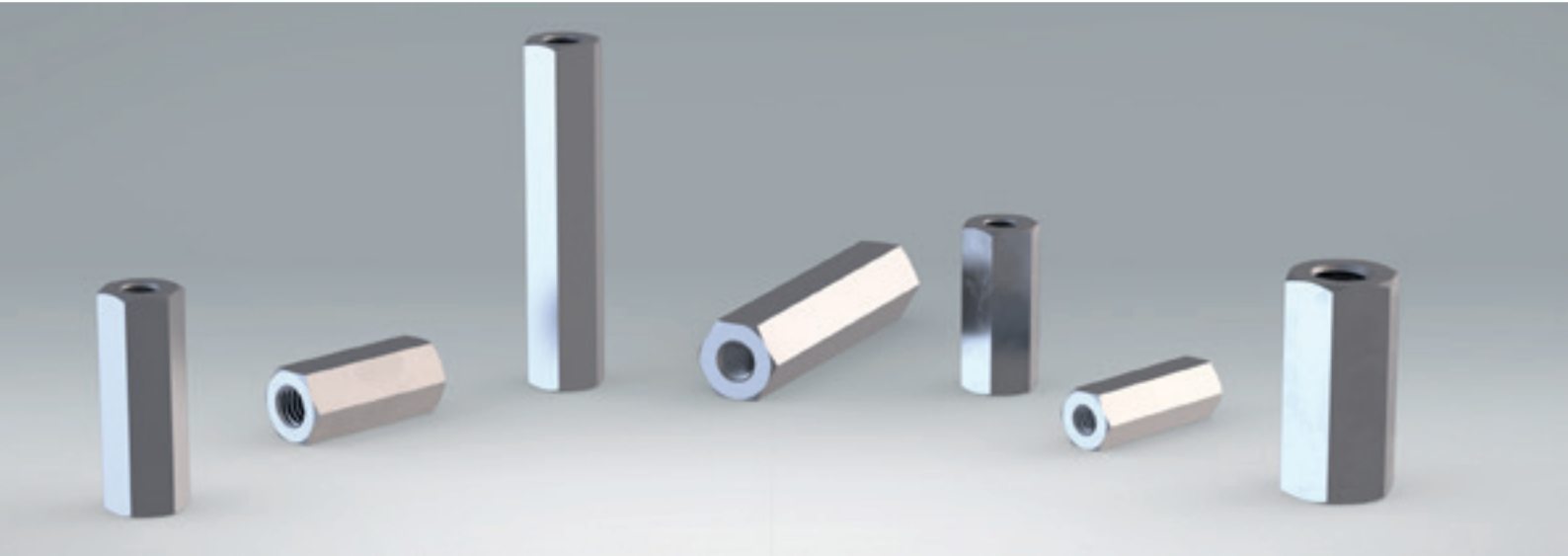
TECHNICAL DATA

A	B	C/D	E	Part number
M2.5	0.3	13	SW5	06.1.4001
M2.5	0.3	15	SW5	06.1.4002

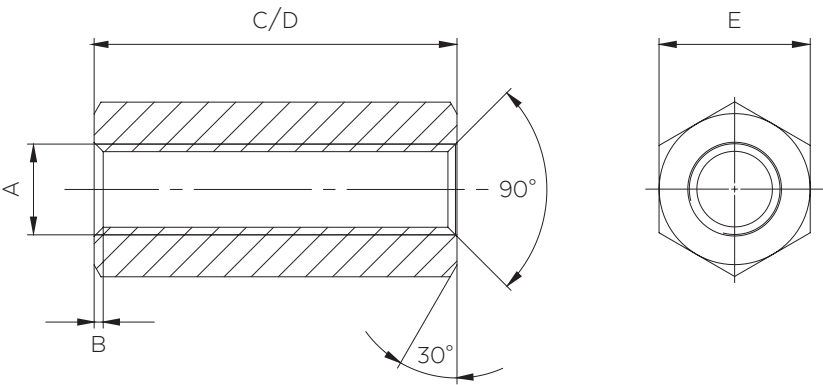
Measurements B - D in mm



POWER SPACER
INTERNAL-INTERNAL, M3, FULL-LENGTH



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (DIN 267 E1E gal. Ni 3)	06.1.07XX

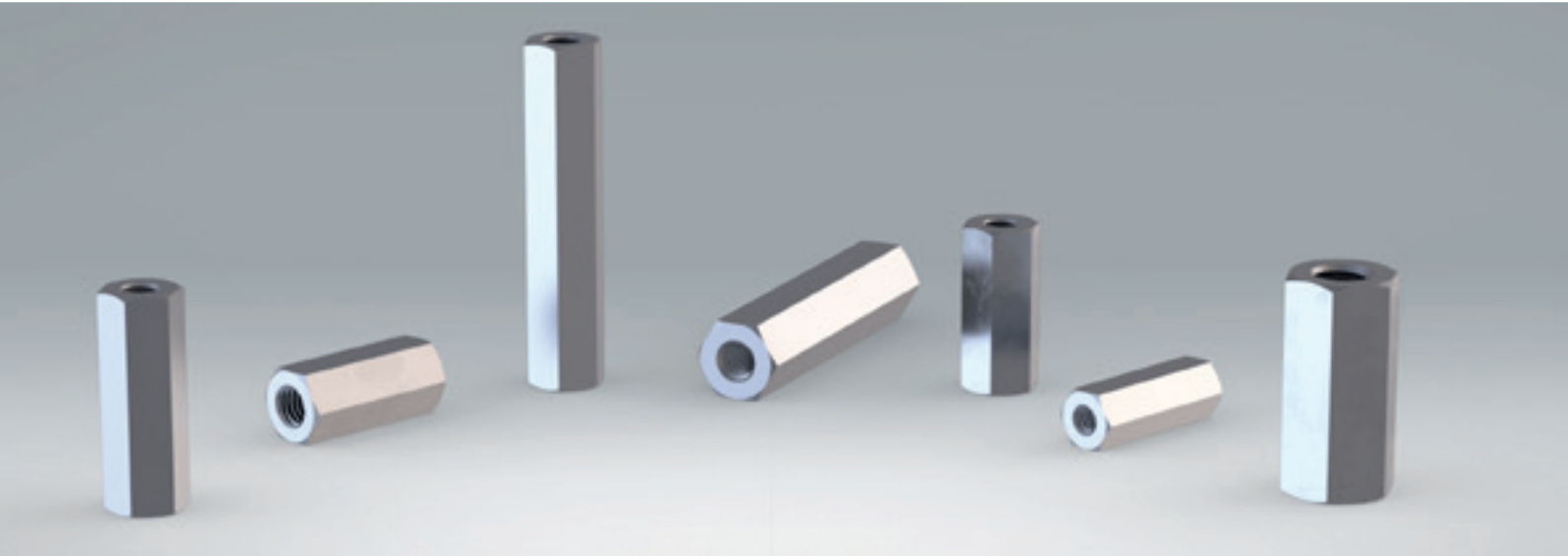
TECHNICAL DATA

A	B	C/D	E	Part number
M3	0.3	3.5	SW5	06.1.0701
M3	0.3	5	SW5	06.1.0702
M3	0.3	7.3	SW5	06.1.0703
M3	0.3	7.5	SW5	06.1.0704
M3	0.3	8	SW5	06.1.0705
M3	0.3	9.5	SW5	06.1.0706
M3	0.3	10	SW5	06.1.0707
M3	0.3	11.5	SW5	06.1.0708
M3	0.3	12	SW5	06.1.0709
M3	0.3	12.7	SW5	06.1.0710
M3	0.3	14	SW5	06.1.0711
M3	0.3	15	SW5	06.1.0712

Measurements B - D in mm



POWER SPACER
INTERNAL-INTERNAL, M3, FULL-LENGTH



PRODUCT SPECIFICATION

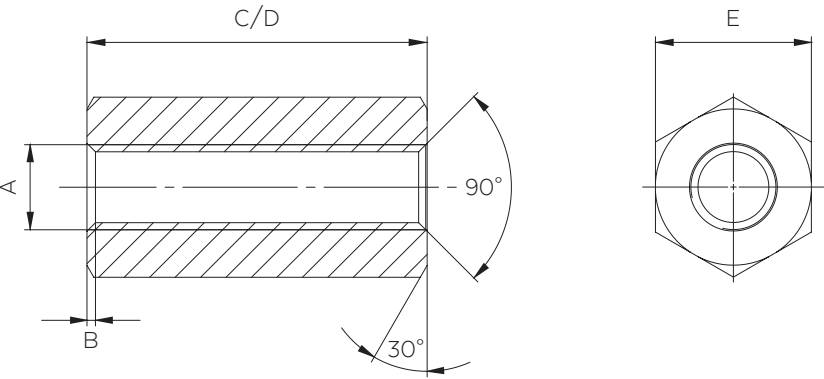
- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E nickel-plated 3 µm)	06.1.08XX

SCALE DRAWINGS



TECHNICAL DATA

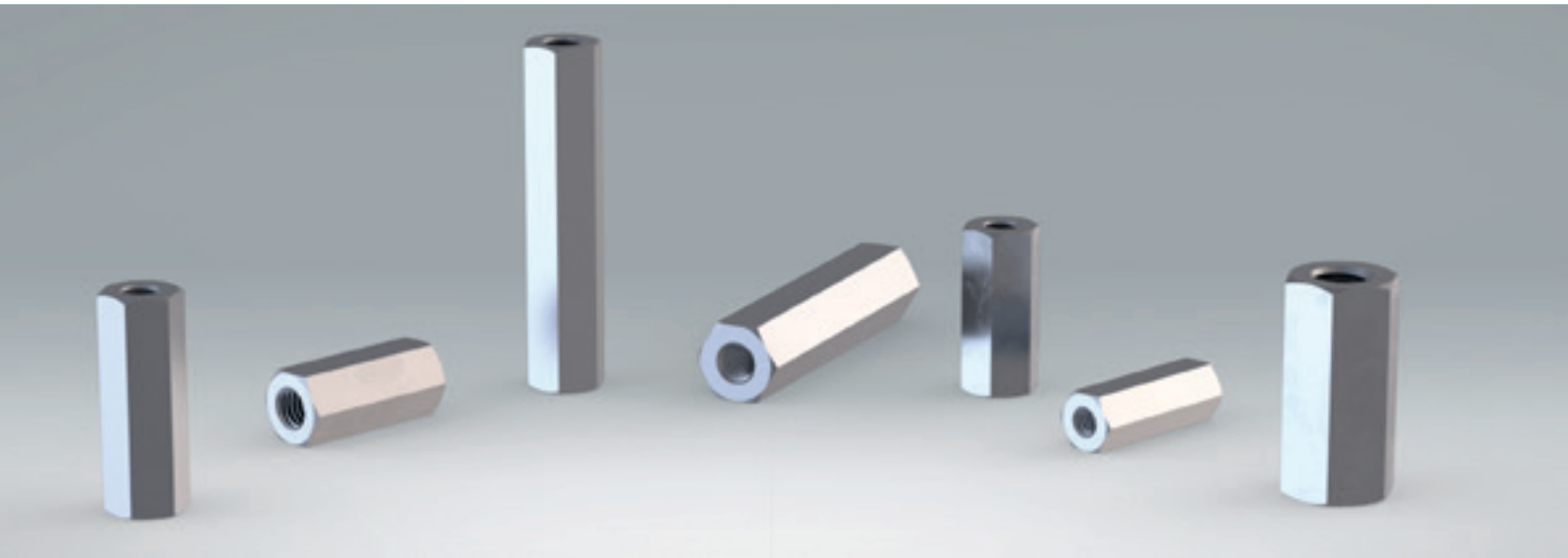
A	B	C/D	E	Part number
M3	0.3	5	SW5.5	06.1.0801
M3	0.3	6	SW5.5	06.1.0802
M3	0.3	7	SW5.5	06.1.0803
M3	0.3	8	SW5.5	06.1.0804
M3	0.3	9	SW5.5	06.1.0805
M3	0.3	10	SW5.5	06.1.0806
M3	0.3	11	SW5.5	06.1.0807
M3	0.3	12	SW5.5	06.1.0808
M3	0.3	12.5	SW5.5	06.1.0809
M3	0.3	13	SW5.5	06.1.0810
M3	0.3	13.5	SW5.5	06.1.0811
M3	0.3	14	SW5.5	06.1.0812
M3	0.3	15	SW5.5	06.1.0813
M3	0.3	17	SW5.5	06.1.0814
M3	0.3	18.5	SW5.5	06.1.0815
M3	0.3	19	SW5.5	06.1.0816

Measurements B - D in mm



POWER SPACER

INTERNAL-INTERNAL, M3, FULL-LENGTH



PRODUCT SPECIFICATION

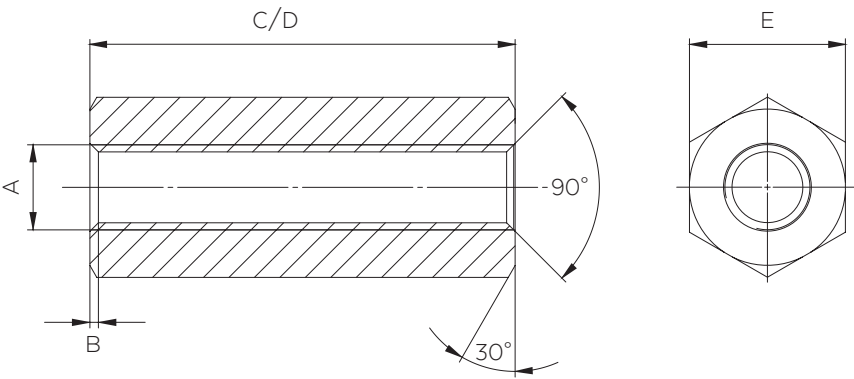
- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Steel 95MnPb28K	galvanized, white (DIN 267 A2E galvanized 5 µm)	06.1.300X

SCALE DRAWINGS



TECHNICAL DATA

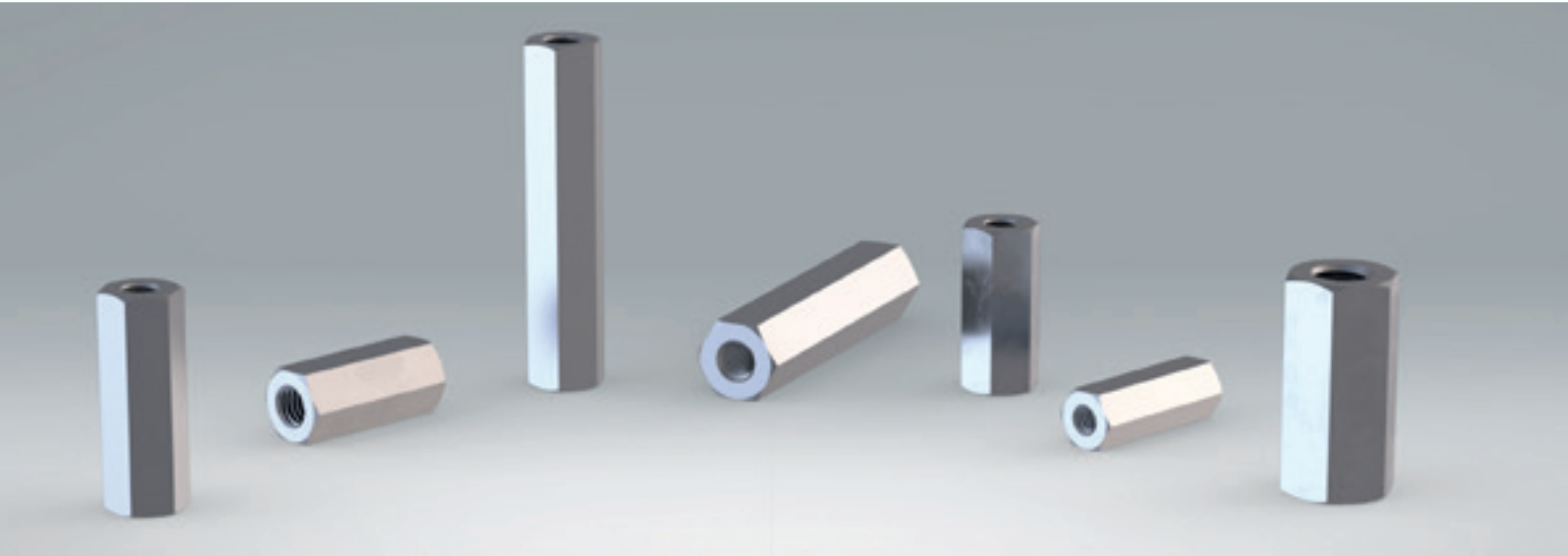
A	B	C/D	E	Part number
M3	0.3	5	SW5.5	06.1.3001
M3	0.3	6	SW5.5	06.1.3002
M3	0.3	10	SW5.5	06.1.3003
M3	0.3	13	SW5.5	06.1.3004
M3	0.3	13.5	SW5.5	06.1.3005
M3	0.3	15	SW5.5	06.1.3006

Measurements B - D in mm



POWER SPACER

INTERNAL-INTERNAL, M4, FULL-LENGTH



PRODUCT SPECIFICATION

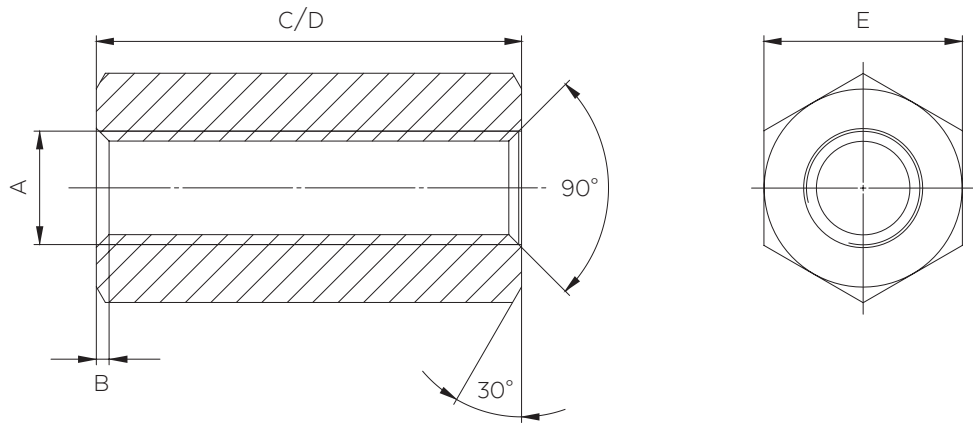
- Hexagonal spacer bolts with full-length internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (DIN 267 E1E gal. Ni 3)	O6.1.0D0X

SCALE DRAWINGS



TECHNICAL DATA

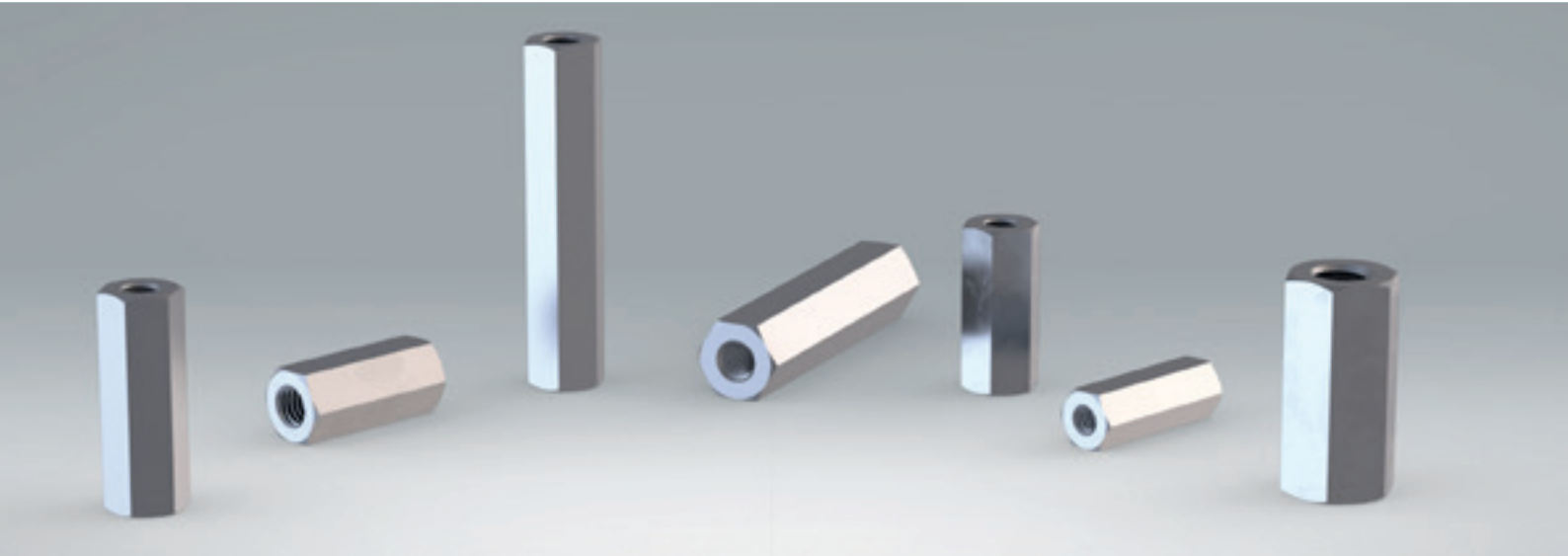
A	B	C/D	E	Part number
M4	0.45	4.5	SW7	O6.1.0D01
M4	0.45	5	SW7	O6.1.0D02
M4	0.45	8	SW7	O6.1.0D03
M4	0.45	10	SW7	O6.1.0D04
M4	0.45	12	SW7	O6.1.0D05
M4	0.45	13	SW7	O6.1.0D06
M4	0.45	15	SW7	O6.1.0D07
M4	0.45	17	SW7	O6.1.0D08
M4	0.45	20	SW7	O6.1.0D09

Measurements B - D in mm



POWER SPACER

INTERNAL-INTERNAL, M2, THREAD BOTH SIDES



PRODUCT SPECIFICATION

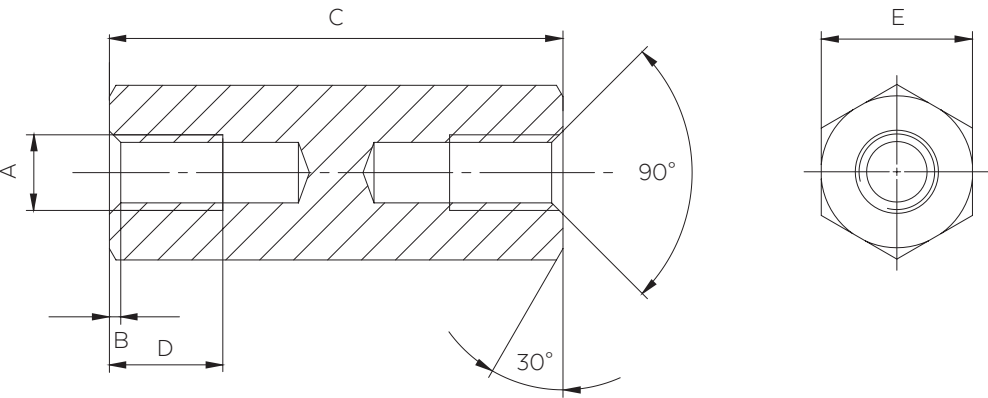
- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (DIN 267 E1E gal. Ni 3)	06.1.010X

SCALE DRAWINGS



TECHNICAL DATA

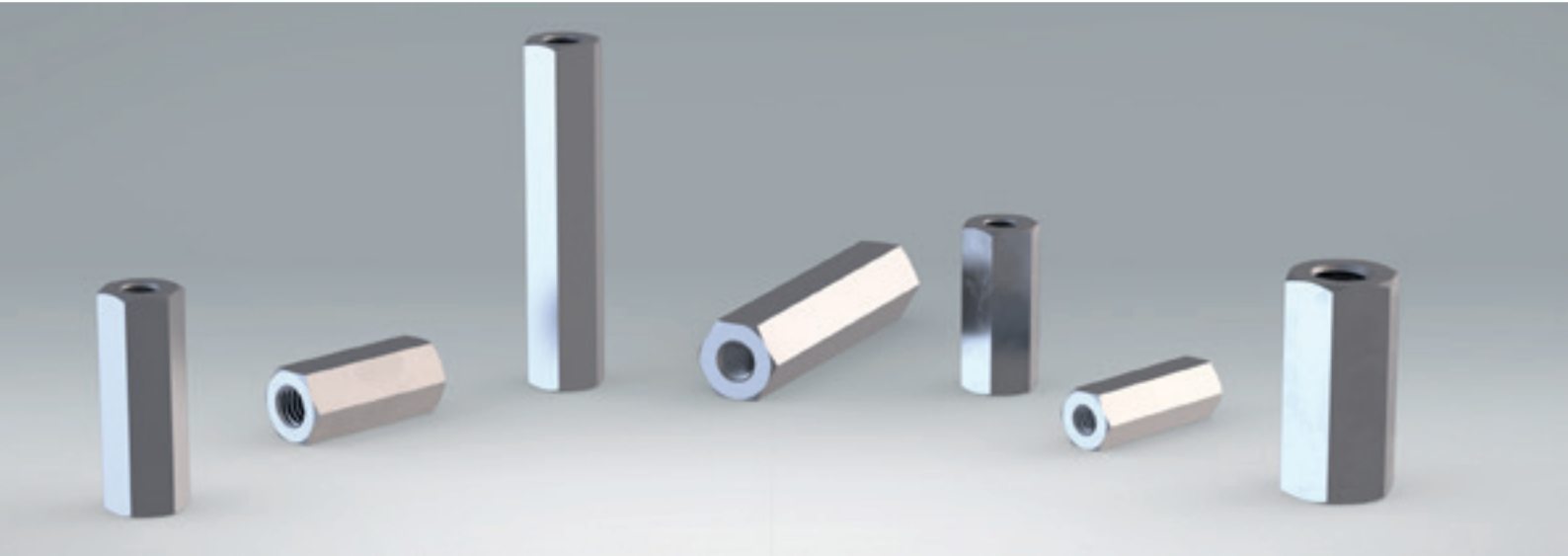
A	B	C	D	E	Part number
M2	0.3	12	6	SW4	06.1.0101
M2	0.3	13	6.5	SW4	06.1.0102
M2	0.3	14	5	SW4	06.1.0103
M2	0.3	14	6	SW4	06.1.0104
M2	0.3	14.5	5	SW4	06.1.0105
M2	0.3	15	5	SW4	06.1.0106
M2	0.3	20	7	SW4	06.1.0107
M2	0.3	25	7	SW4	06.1.0108
M2	0.3	30	7	SW4	06.1.0109

Measurements B - D in mm

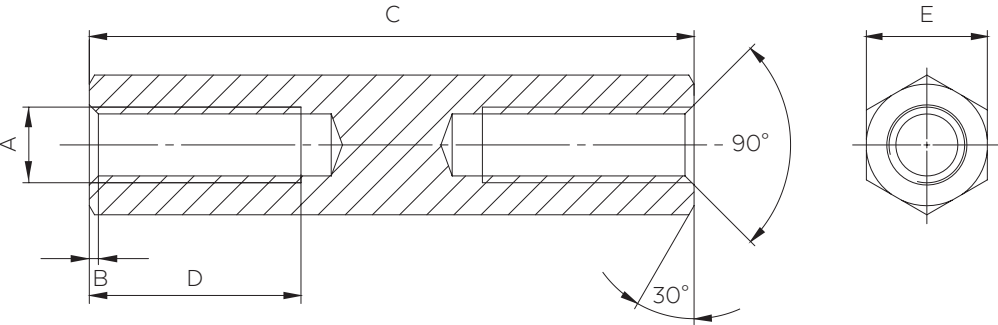


POWER SPACER

INTERNAL-INTERNAL, M2.5, THREAD BOTH SIDES



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (gal. Ni3 (nickel-plated 4 µm; E1E))	06.1.06XX

TECHNICAL DATA

A	B	C	D	E	Part number
M2.5	0.3	16	7	SW4	06.1.0601
M2.5	0.3	17	7	SW4	06.1.0602
M2.5	0.3	17.5	7	SW4	06.1.0603
M2.5	0.3	18	7	SW4	06.1.0604
M2.5	0.3	18.5	7	SW4	06.1.0605
M2.5	0.3	18.6	7	SW4	06.1.0606
M2.5	0.3	20	7	SW4	06.1.0607
M2.5	0.3	21	7	SW4	06.1.0608
M2.5	0.3	22	7	SW4	06.1.0609
M2.5	0.3	22.5	7	SW4	06.1.0610
M2.5	0.3	23	7	SW4	06.1.0611
M2.5	0.3	23.5	7	SW4	06.1.0612
M2.5	0.3	24	7	SW4	06.1.0613
M2.5	0.3	25	7	SW4	06.1.0614
M2.5	0.3	25.4	7	SW4	06.1.0615

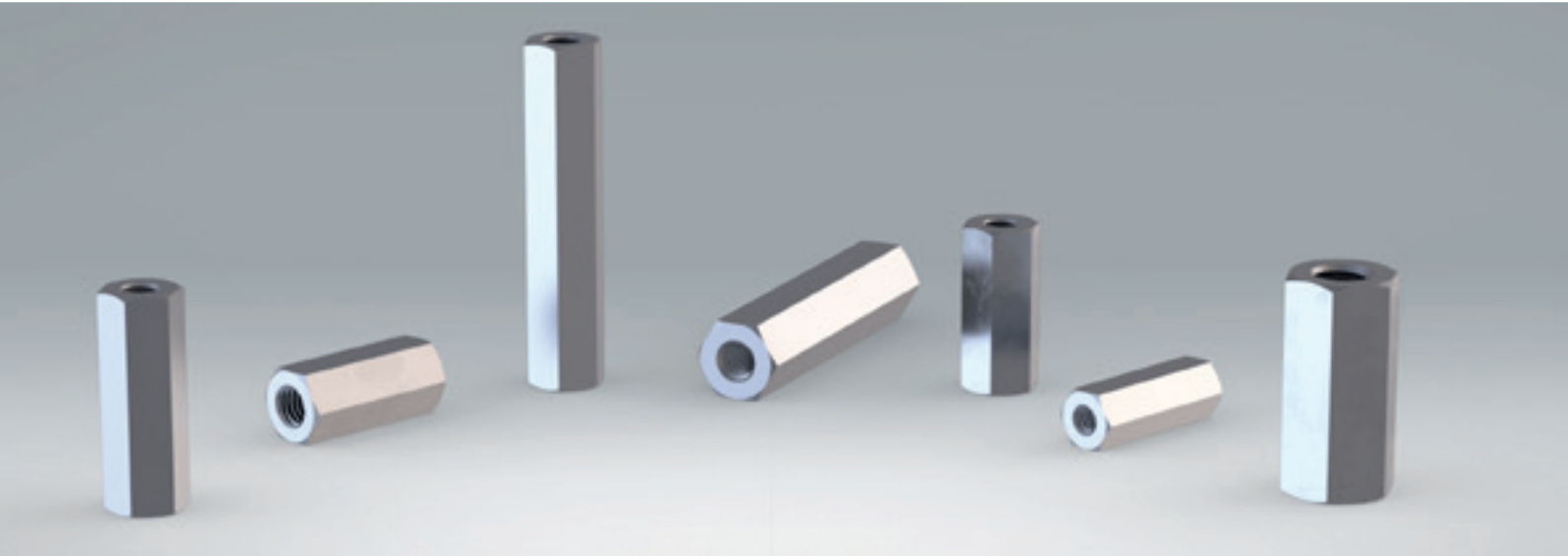
Measurements B - D in mm

A	B	C	D	E	Part number
M2.5	0.3	27	7	SW4	06.1.0616
M2.5	0.3	27.1	7	SW4	06.1.0617
M2.5	0.3	27.7	7	SW4	06.1.0618
M2.5	0.3	28	7	SW4	06.1.0619
M2.5	0.3	30	7	SW4	06.1.0620
M2.5	0.3	32	7	SW4	06.1.0621
M2.5	0.3	33	7	SW4	06.1.0622
M2.5	0.3	34	7	SW4	06.1.0623
M2.5	0.3	35	7	SW4	06.1.0624
M2.5	0.3	38.1	7	SW4	06.1.0625
M2.5	0.3	40	7	SW4	06.1.0626
M2.5	0.3	47	7	SW4	06.1.0627
M2.5	0.3	52.5	7	SW4	06.1.0628
M2.5	0.3	59	7	SW4	06.1.0629



POWER SPACER

INTERNAL-INTERNAL, M2.5, THREAD BOTH SIDES



PRODUCT SPECIFICATION

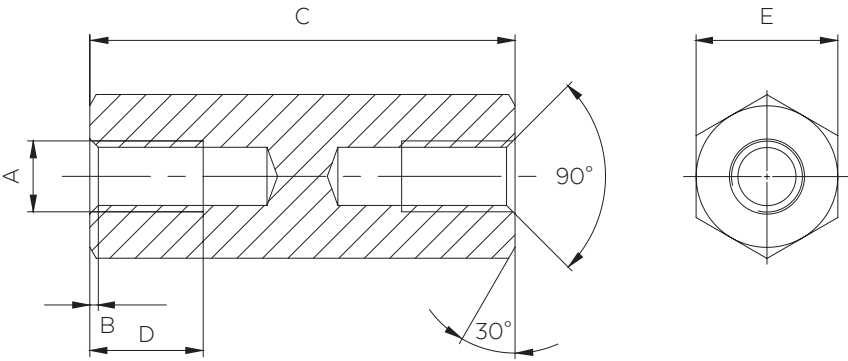
- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (EN ISO 4042 E1E)	06.1.050X

SCALE DRAWINGS



TECHNICAL DATA

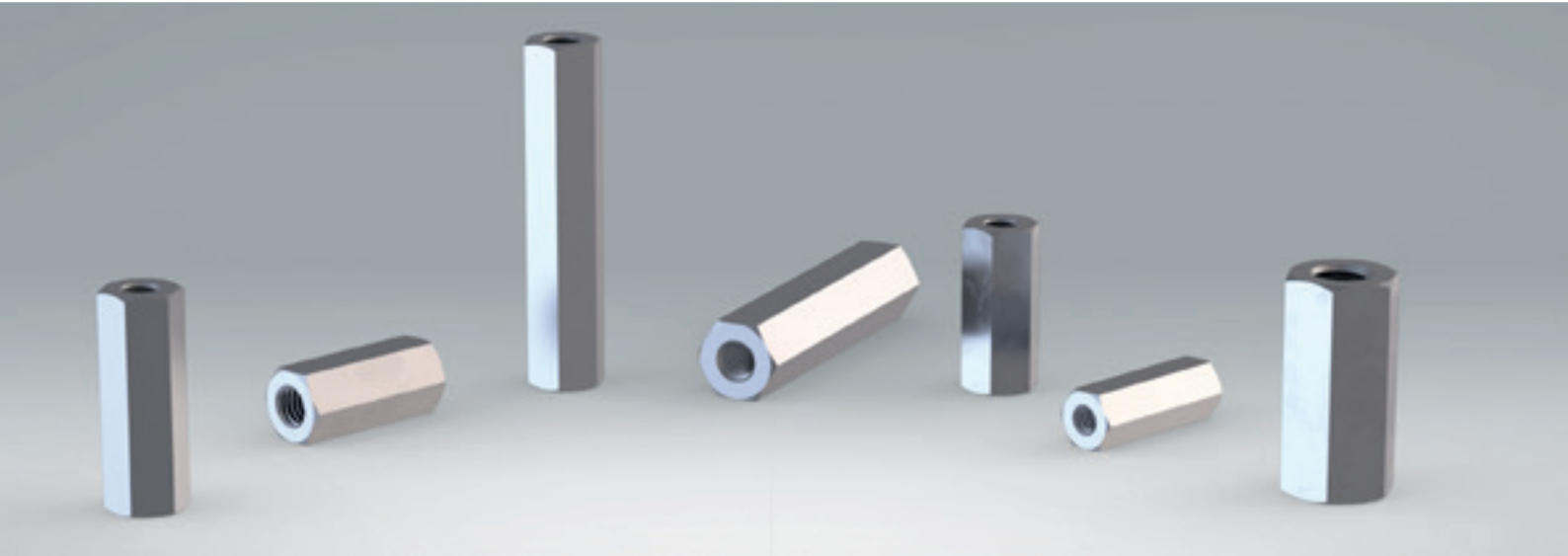
A	B	C	D	E	Part number
M2.5	0.3	18.8	6	SW5	06.1.0501
M2.5	0.3	19.1	6	SW5	06.1.0502
M2.5	0.3	21	6	SW5	06.1.0503
M2.5	0.3	22.2	6	SW5	06.1.0504

Measurements B - D in mm



POWER SPACER

INTERNAL-INTERNAL, M2.5, THREAD BOTH SIDES



PRODUCT SPECIFICATION

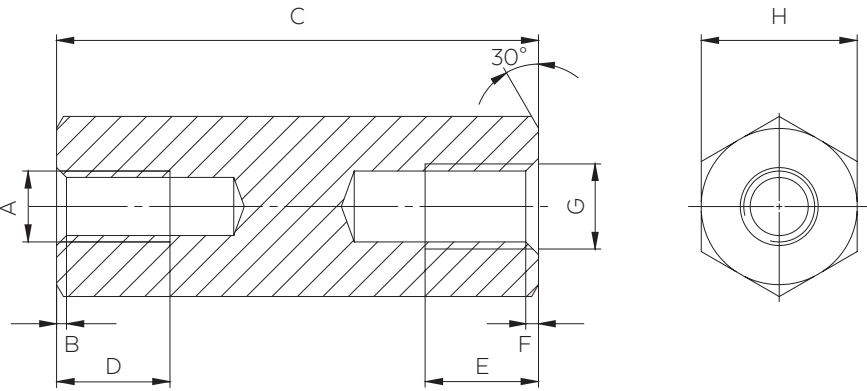
- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.1.0401

SCALE DRAWINGS



TECHNICAL DATA

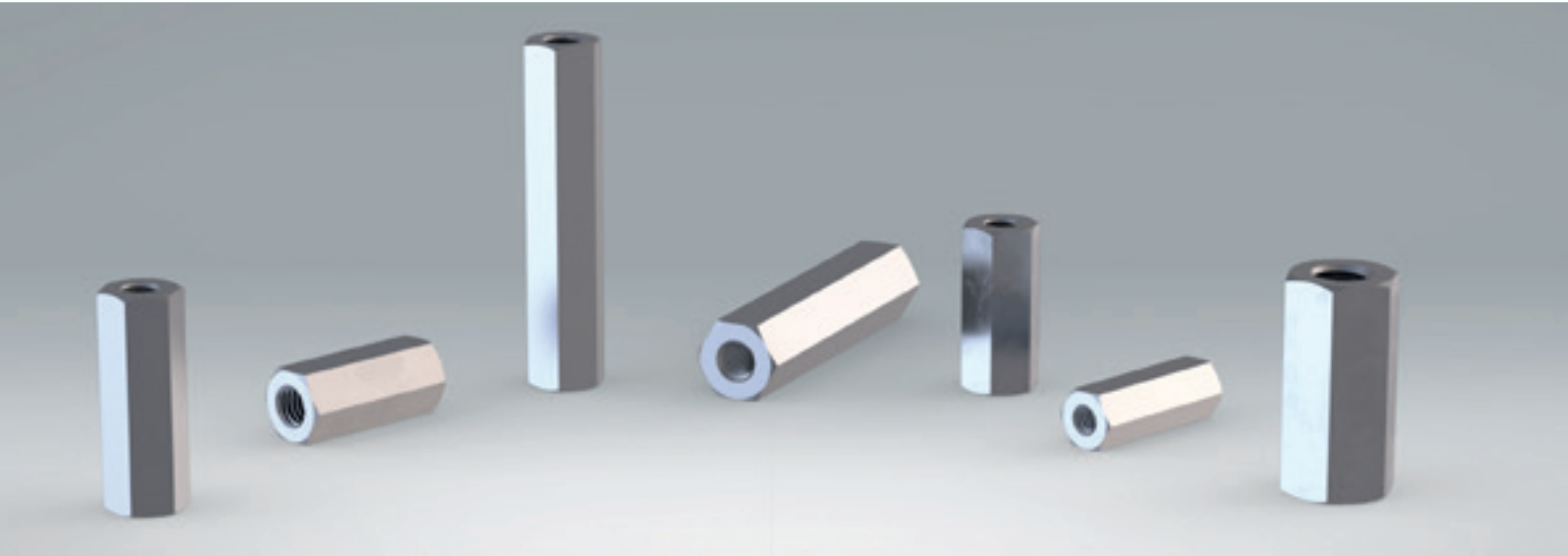
A	B	C	D	E	F	G	H	Part number
M2.5	0.35	12	6	6	0.45	M3	SW5.5	06.1.0401

Measurements B - H in mm



POWER SPACER

INTERNAL-INTERNAL, M3, THREAD BOTH SIDES



PRODUCT SPECIFICATION

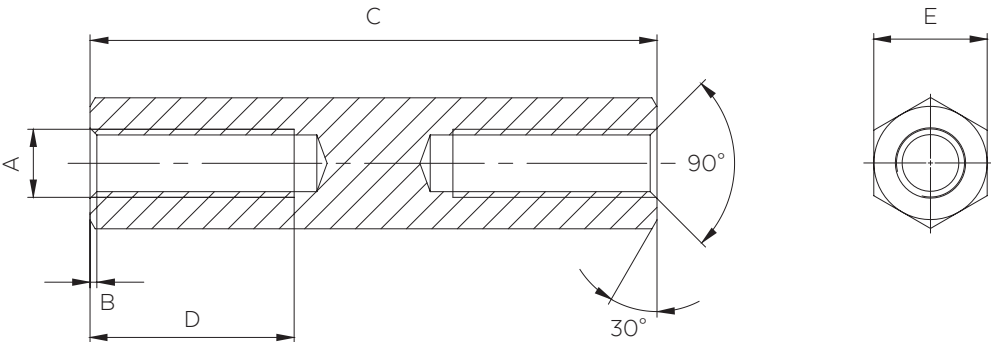
- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (ISO 4042 E1E gal. Ni 3)	06.1.0AXX

SCALE DRAWINGS



TECHNICAL DATA

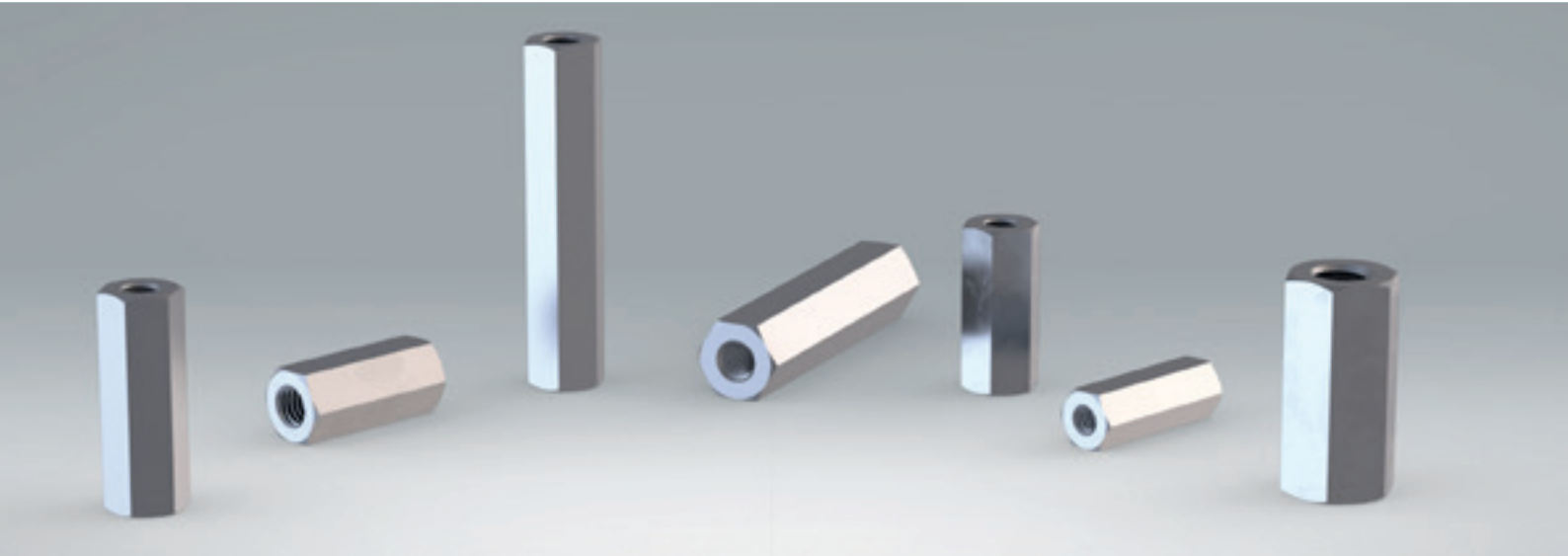
A	B	C	D	E	Part number
M3	0.3	18	8	SW5	06.1.0A01
M3	0.3	19.1	8	SW5	06.1.0A02
M3	0.3	20	8	SW5	06.1.0A03
M3	0.3	22	10	SW5	06.1.0A04
M3	0.3	22.2	7	SW5	06.1.0A05
M3	0.3	25	8	SW5	06.1.0A06
M3	0.3	28	8	SW5	06.1.0A07
M3	0.3	30	8	SW5	06.1.0A08
M3	0.3	31.8	8	SW5	06.1.0A09
M3	0.3	38.1	8	SW5	06.1.0A10

Measurements B - D in mm

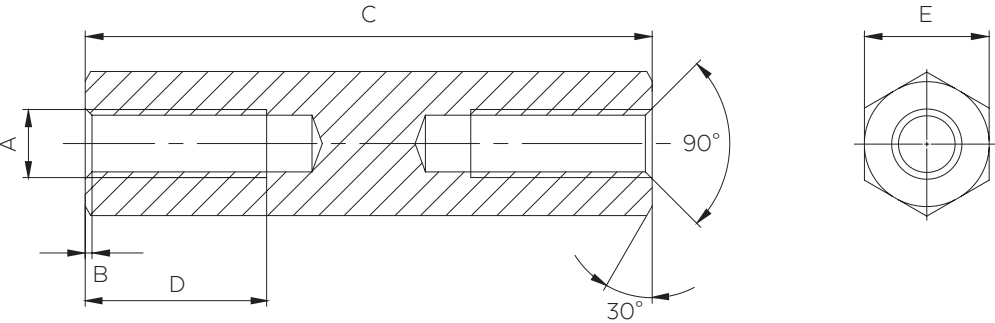


POWER SPACER

INTERNAL-INTERNAL, M3, THREAD BOTH SIDES



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.1.OBXX

TECHNICAL DATA

A	B	C	D	E	Part number
M3	0.3	17.5	8	SW5.5	06.1.OB01
M3	0.3	18	8	SW5.5	06.1.OB02
M3	0.3	18.5	8	SW5.5	06.1.OB03
M3	0.3	18.7	8	SW5.5	06.1.OB04
M3	0.3	19.5	8	SW5.5	06.1.OB05
M3	0.3	20	8	SW5.5	06.1.OB06
M3	0.3	21	8	SW5.5	06.1.OB07
M3	0.3	23	8	SW5.5	06.1.OB08
M3	0.3	24	8	SW5.5	06.1.OB09
M3	0.3	26	8	SW5.5	06.1.OB10
M3	0.3	27	8	SW5.5	06.1.OB11
M3	0.3	29	8	SW5.5	06.1.OB12
M3	0.3	31	8	SW5.5	06.1.OB13
M3	0.3	32	8	SW5.5	06.1.OB14
M3	0.3	33	8	SW5.5	06.1.OB15

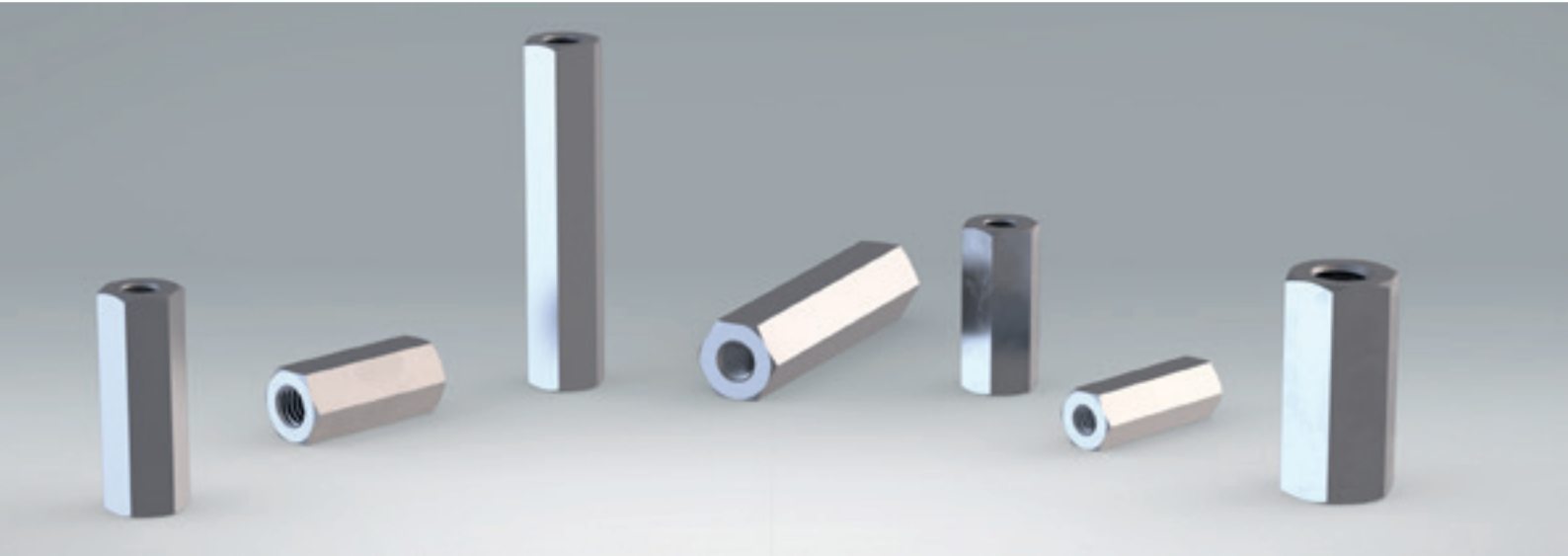
A	B	C	D	E	Part number
M3	0.3	35	8	SW5.5	06.1.OB16
M3	0.3	36	8	SW5.5	06.1.OB17
M3	0.3	37	8	SW5.5	06.1.OB18
M3	0.3	38	8	SW5.5	06.1.OB19
M3	0.3	39	8	SW5.5	06.1.OB20
M3	0.3	40	8	SW5.5	06.1.OB21
M3	0.3	41	8	SW5.5	06.1.OB22
M3	0.3	42	8	SW5.5	06.1.OB23
M3	0.3	43	8	SW5.5	06.1.OB24
M3	0.3	44	8	SW5.5	06.1.OB25
M3	0.3	46	8	SW5.5	06.1.OB26
M3	0.3	47	8	SW5.5	06.1.OB27
M3	0.3	50	8	SW5.5	06.1.OB28
M3	0.3	52.3	8	SW5.5	06.1.OB29
M3	0.3	60	8	SW5.5	06.1.OB30

Measurements B - D in mm



POWER SPACER

INTERNAL-INTERNAL, M3, THREAD BOTH SIDES



PRODUCT SPECIFICATION

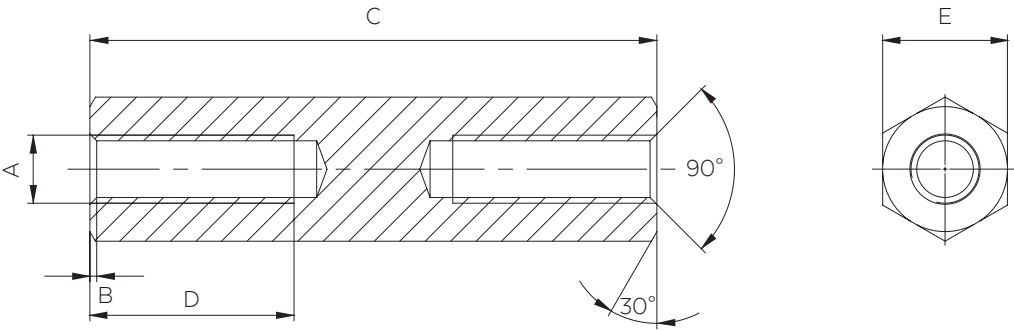
- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3zh	nickel-plated (DIN 267 E1E gal. Ni 3)	06.1.090X

SCALE DRAWINGS



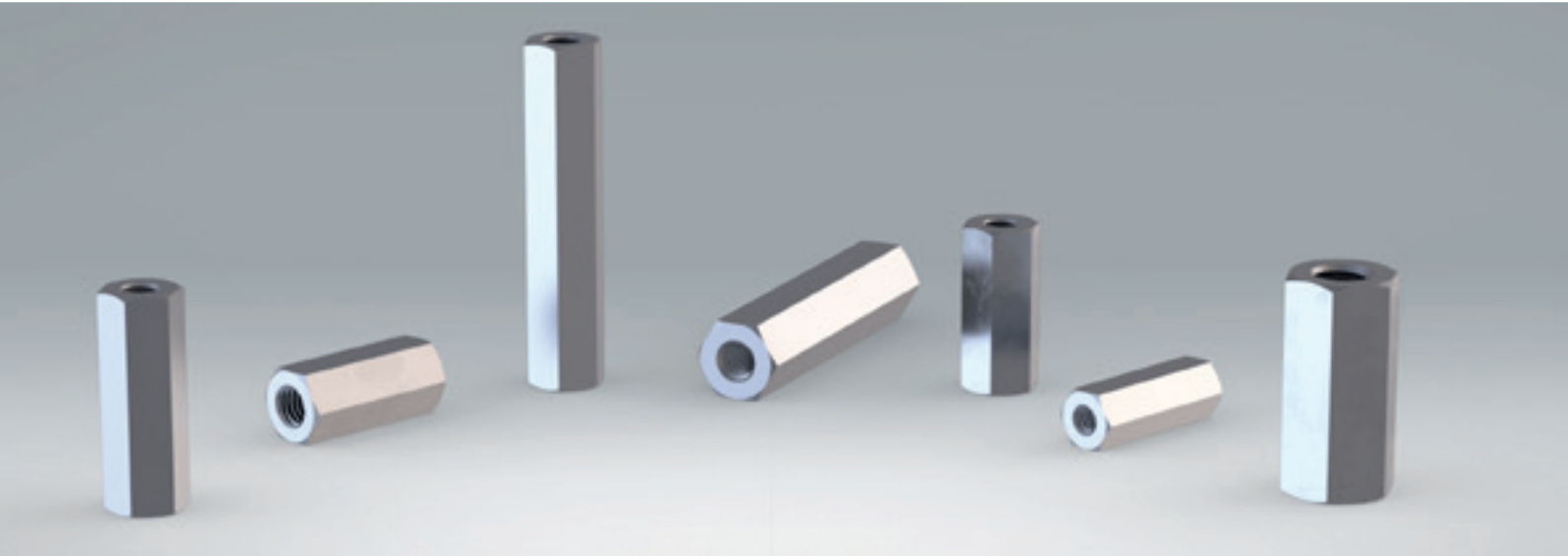
TECHNICAL DATA

A	B	C	D	E	Part number
M3	0.3	22	9	SW5.5	06.1.0901
M3	0.3	25	9	SW5.5	06.1.0902
M3	0.3	30	9	SW5.5	06.1.0903

Measurements B - D in mm



POWER SPACER
INTERNAL-INTERNAL, M4, THREAD BOTH SIDES



PRODUCT SPECIFICATION

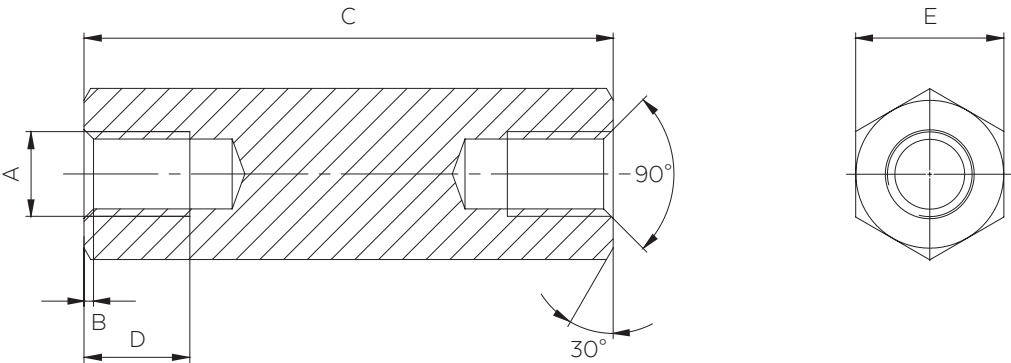
- Hexagonal spacer bolts with thread both sides internal thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.1.0C0X

SCALE DRAWINGS



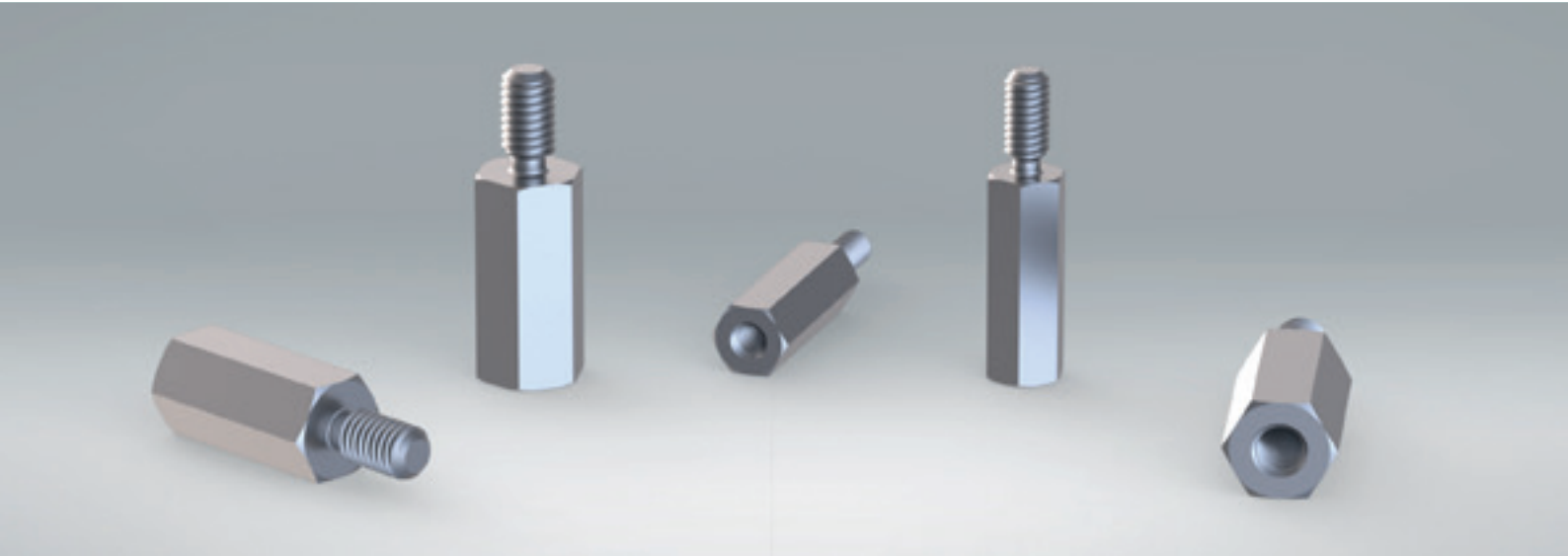
TECHNICAL DATA

A	B	C	D	E	Part number
M4	0.45	23	9	SW7	06.1.0C01
M4	0.45	25	9	SW7	06.1.0C02
M4	0.45	30	9	SW7	06.1.0C03
M4	0.45	40	9	SW7	06.1.0C04
M4	0.45	52	9	SW7	06.1.0C05
M4	0.45	55	9	SW7	06.1.0C06
M4	0.45	60	9	SW7	06.1.0C07

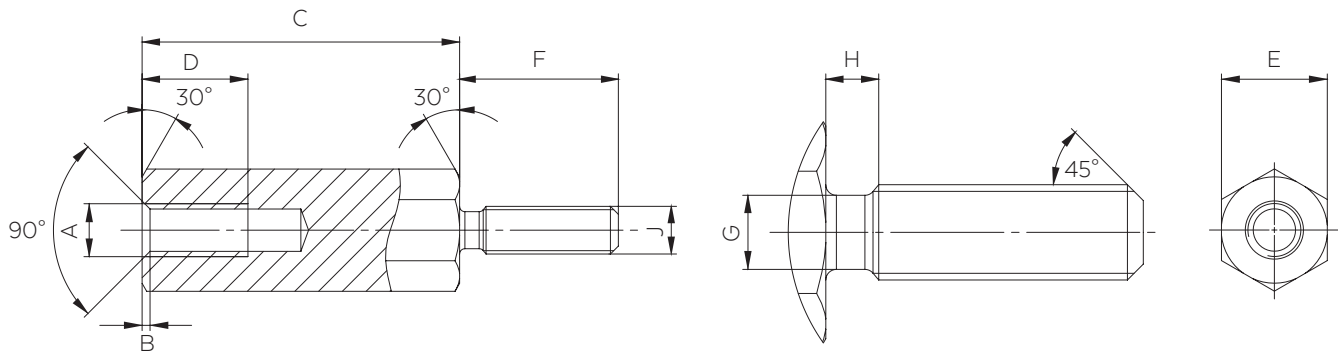
Measurements B - D in mm



POWER SPACER
INTERNAL-EXTERNAL, M2



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.00XX

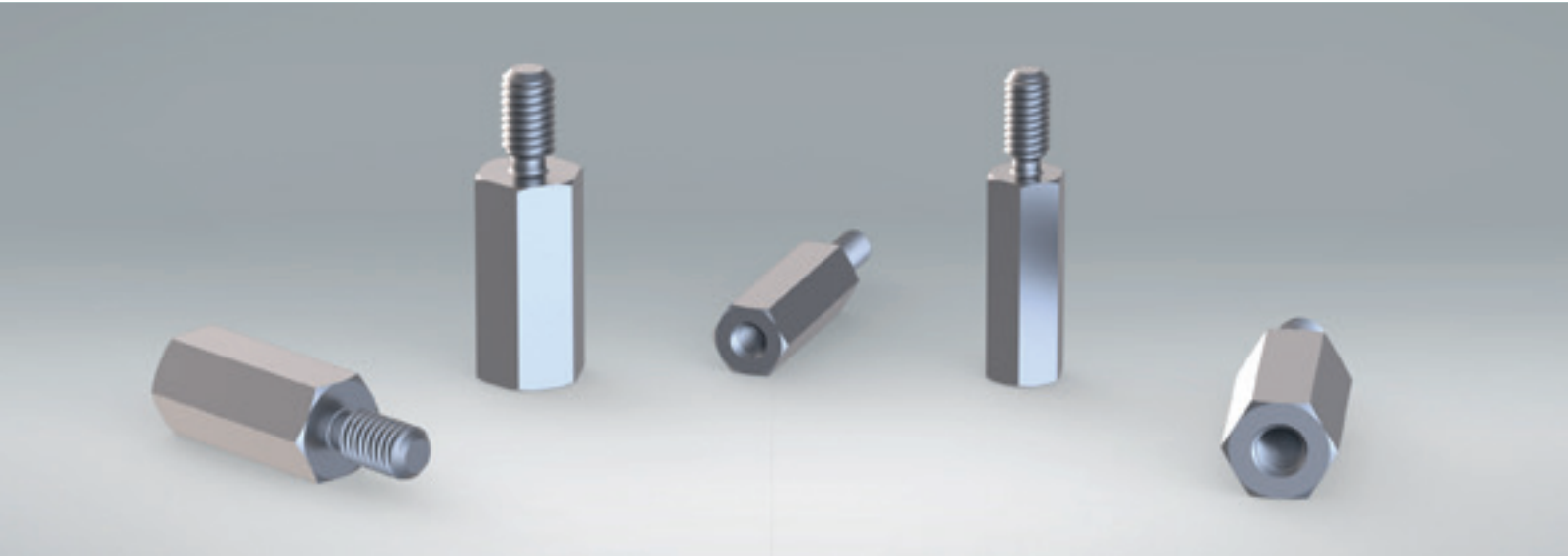
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	Part number
M2	0.3	5	3.5	SW5	5	Ø 1.4	1	M2	06.2.0001
M2	0.3	5	2.8	SW5	6	Ø 1.4	1	M2	06.2.0002
M2	0.3	6.3	5	SW5	5	Ø 1.4	1	M2	06.2.0003
M2	0.3	7	5.1	SW5	6	Ø 1.4	1	M2	06.2.0004
M2	0.3	8	5	SW5	6	Ø 1.4	1	M2	06.2.0005
M2	0.3	10	7	SW5	6	Ø 1.4	1	M2	06.2.0006
M2	0.3	11	7	SW5	6	Ø 1.4	1	M2	06.2.0007
M2	0.3	12	7	SW5	6	Ø 1.4	1	M2	06.2.0008
M2	0.3	15	7	SW5	6	Ø 1.4	1	M2	06.2.0009
M2	0.3	16	7	SW5	6	Ø 1.4	1	M2	06.2.0010
M2	0.3	25	7	SW5	6	Ø 1.4	1	M2	06.2.0011
M2	0.3	30	7	SW5	6	Ø 1.4	1	M2	06.2.0012

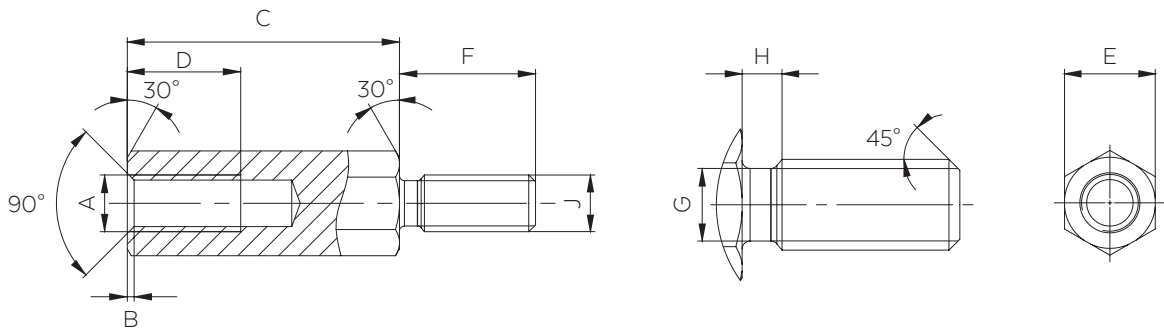
Measurements B - D, F - H in mm



POWER SPACER
INTERNAL-EXTERNAL, M2.5



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.02XX

TECHNICAL DATA

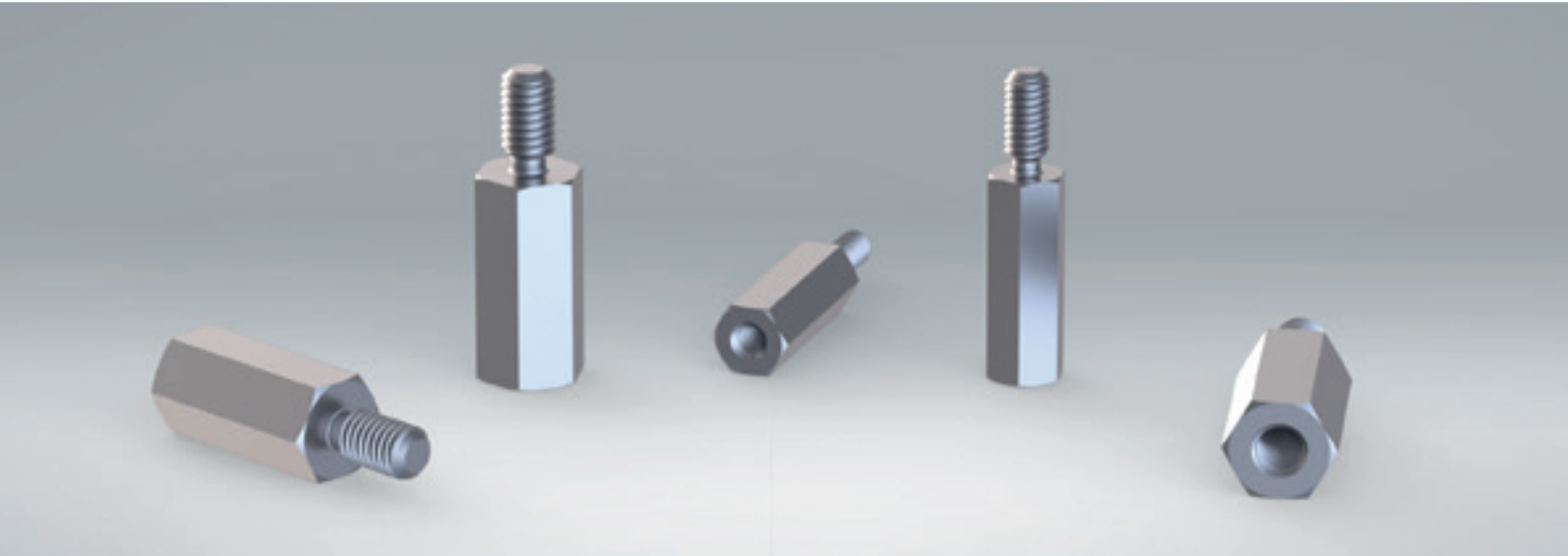
A	B	C	D	E	F	G	H	J	Part number
M2.5	0.3	5	3	SW4	6	Ø 2	1.1	M2.5	06.2.0201
M2.5	0.3	6	4.5	SW4	3.5	Ø 2	1.1	M2.5	06.2.0202
M2.5	0.3	6	2.5	SW4	6	Ø 2	1.1	M2.5	06.2.0203
M2.5	0.3	6.5	4	SW4	6	Ø 2	1.1	M2.5	06.2.0204
M2.5	0.3	7	5.5	SW4	6	Ø 2	1.1	M2.5	06.2.0205
M2.5	0.3	8	5.5	SW4	6	Ø 2	1.1	M2.5	06.2.0206
M2.5	0.3	10	7	SW4	4	Ø 2	1.1	M2.5	06.2.0207
M2.5	0.3	10	7	SW4	6	Ø 2	1.1	M2.5	06.2.0208
M2.5	0.3	11	7	SW4	5	Ø 2	1.1	M2.5	06.2.0209
M2.5	0.3	11	7	SW4	6	Ø 2	1.1	M2.5	06.2.0210
M2.5	0.3	11.5	7	SW4	6	Ø 2	1.1	M2.5	06.2.0211
M2.5	0.3	12	7	SW4	6	Ø 2	1.1	M2.5	06.2.0212
M2.5	0.3	13	7	SW4	6	Ø 2	1.1	M2.5	06.2.0213

Measurements B - D, F - H in mm

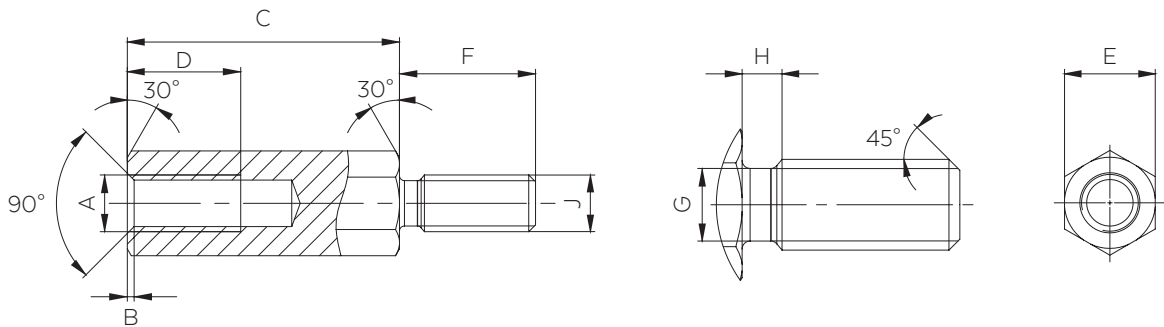
CONTINUED ON NEXT PAGE →



POWER SPACER
INTERNAL-EXTERNAL, M2.5



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.02XX

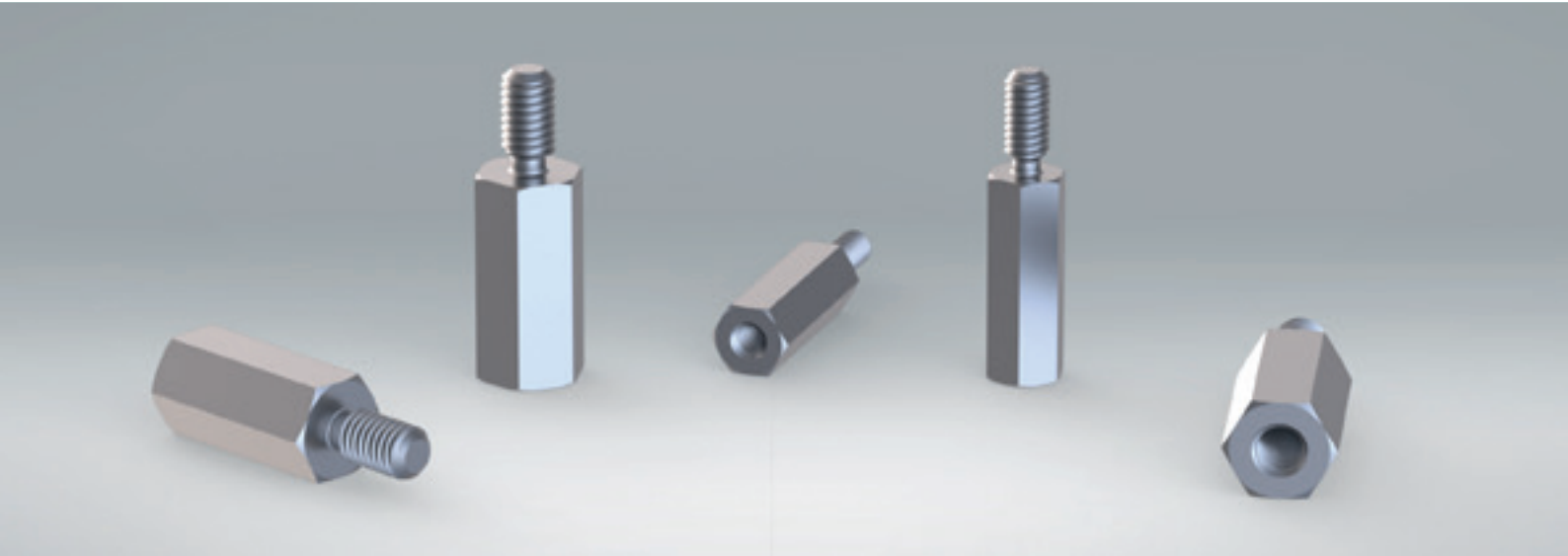
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	Part number
M2.5	0.3	14	7	SW4	6	Ø 2	1.1	M2.5	06.2.0214
M2.5	0.3	15	7	SW4	6	Ø 2	1.1	M2.5	06.2.0215
M2.5	0.3	16	7	SW4	6	Ø 2	1.1	M2.5	06.2.0216
M2.5	0.3	17	7	SW4	6	Ø 2	1.1	M2.5	06.2.0217
M2.5	0.3	18	7	SW4	6	Ø 2	1.1	M2.5	06.2.0218
M2.5	0.3	20	7	SW4	6	Ø 2	1.1	M2.5	06.2.0219
M2.5	0.3	22	7	SW4	6	Ø 2	1.1	M2.5	06.2.0220
M2.5	0.3	25	7	SW4	6	Ø 2	1.1	M2.5	06.2.0221
M2.5	0.3	28	7	SW4	6	Ø 2	1.1	M2.5	06.2.0222
M2.5	0.3	29	7	SW4	6	Ø 2	1.1	M2.5	06.2.0223
M2.5	0.3	30	7	SW4	6	Ø 2	1.1	M2.5	06.2.0224
M2.5	0.3	40	7	SW4	6	Ø 2	1.1	M2.5	06.2.0225
M2.5	0.3	50	7	SW4	6	Ø 2	1.1	M2.5	06.2.0226

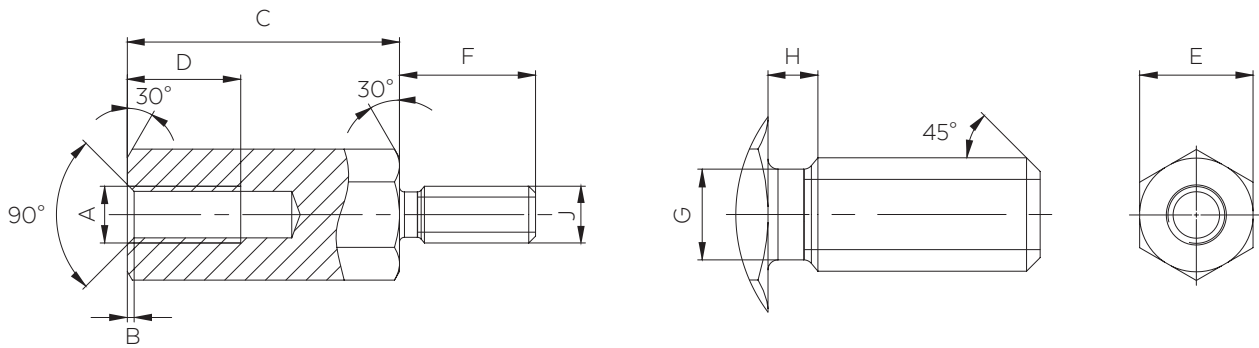
Measurements B - D, F - H in mm



POWER SPACER
INTERNAL-EXTERNAL, M2.5



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



TECHNICAL DATA

A	B	C	D	E	F	G	H	J	Part number
M2.5	0.3	9	6	SW5	6	Ø 2	1.1	M2.5	06.2.0101
M2.5	0.3	10	6	SW5	6	Ø 2	1.1	M2.5	06.2.0102
M2.5	0.3	15	6	SW5	6	Ø 2	1.1	M2.5	06.2.0103
M2.5	0.3	18	6	SW5	6	Ø 2	1.1	M2.5	06.2.0104
M2.5	0.3	20	6	SW5	6	Ø 2	1.1	M2.5	06.2.0105

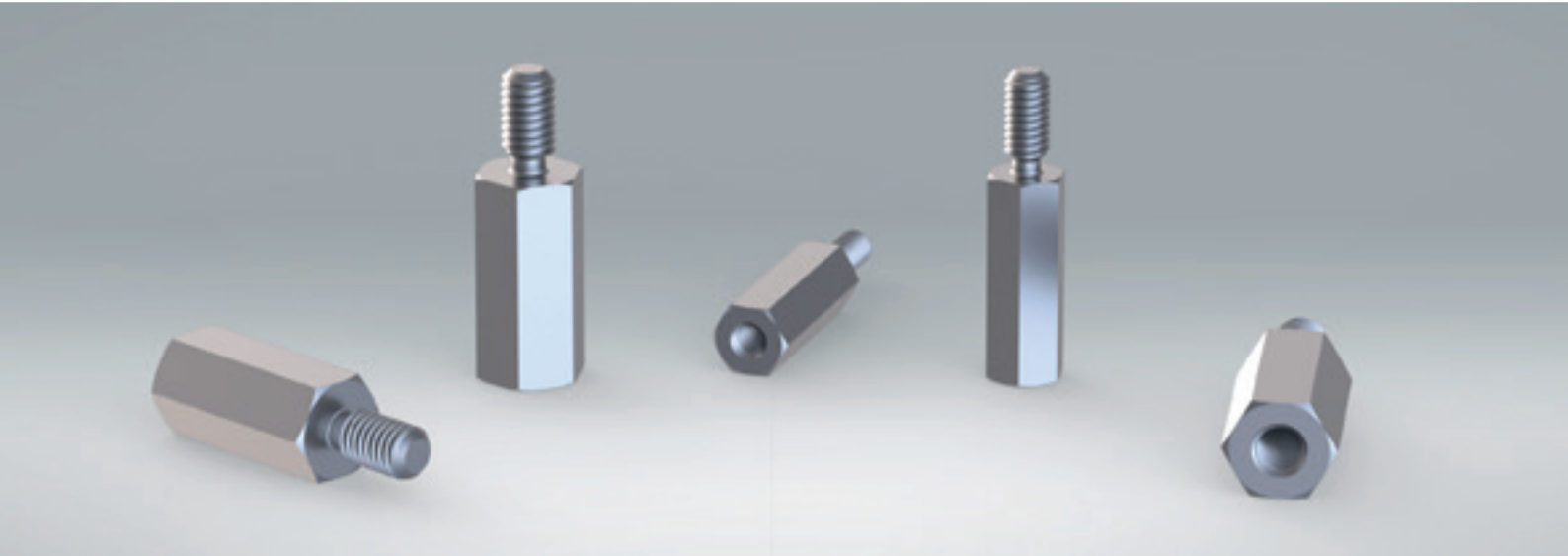
Measurements B - D, F - H in mm

MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.010X



POWER SPACER
INTERNAL-EXTERNAL, M3



PRODUCT SPECIFICATION

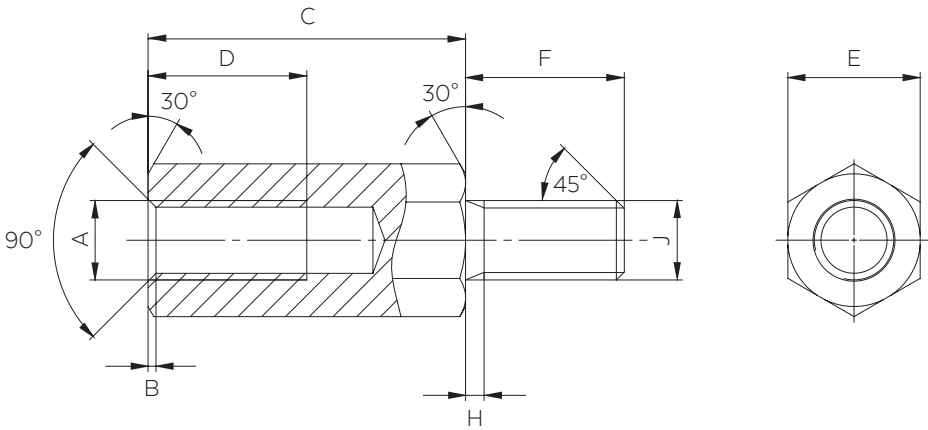
- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.030X

SCALE DRAWINGS



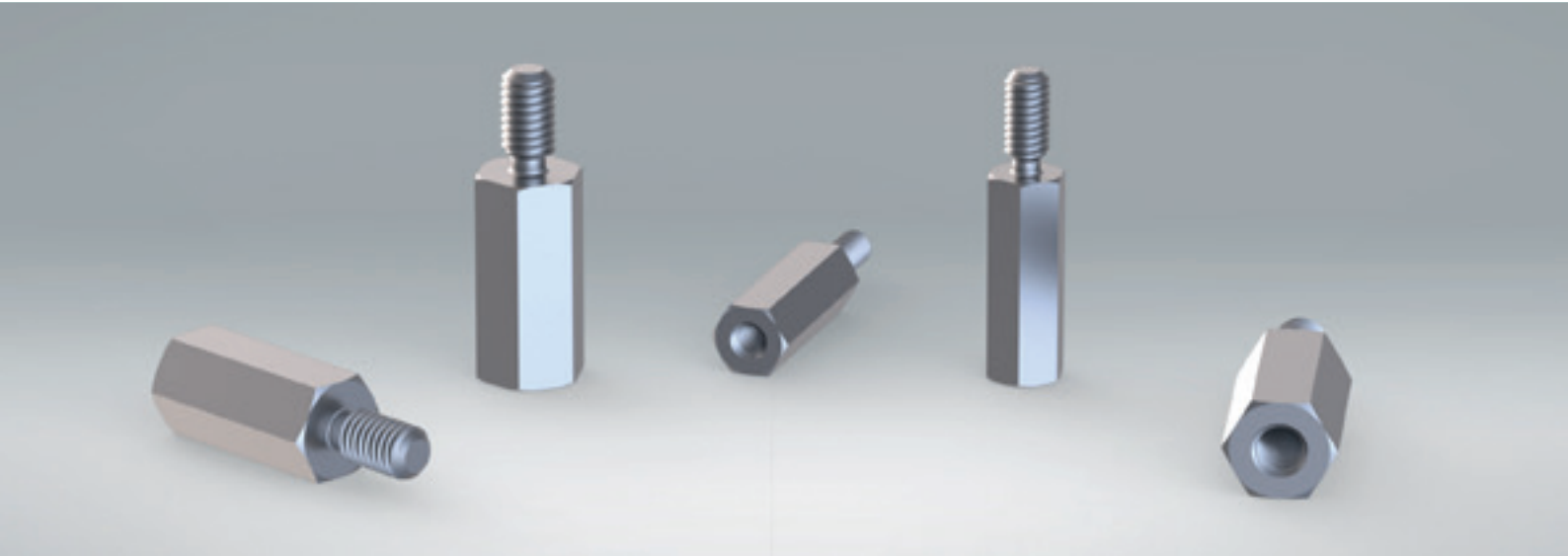
TECHNICAL DATA

A	B	C	D	E	F	H	J	Part number
M3	0.3	5	3	SW5	8	0.7	M3	06.2.0301
M3	0.3	5	2.5	SW5	12	0.7	M3	06.2.0302
M3	0.3	6.5	2.5	SW5	5	0.7	M3	06.2.0303
M3	0.3	8	5	SW5	8	0.7	M3	06.2.0304
M3	0.3	10	6.5	SW5	8	0.7	M3	06.2.0305
M3	0.3	12	7	SW5	8	0.7	M3	06.2.0306
M3	0.3	15	7	SW5	8	0.7	M3	06.2.0307
M3	0.3	16	8	SW5	8	0.7	M3	06.2.0308

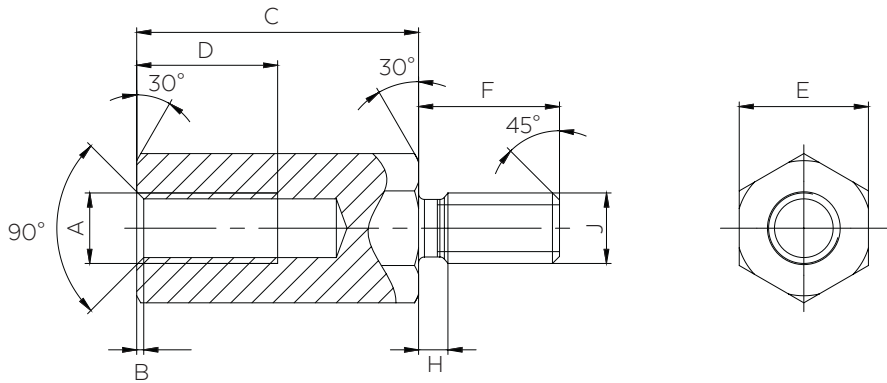
Measurements B - D und F - H in mm



POWER SPACER
INTERNAL-EXTERNAL, M3



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.04XX

TECHNICAL DATA

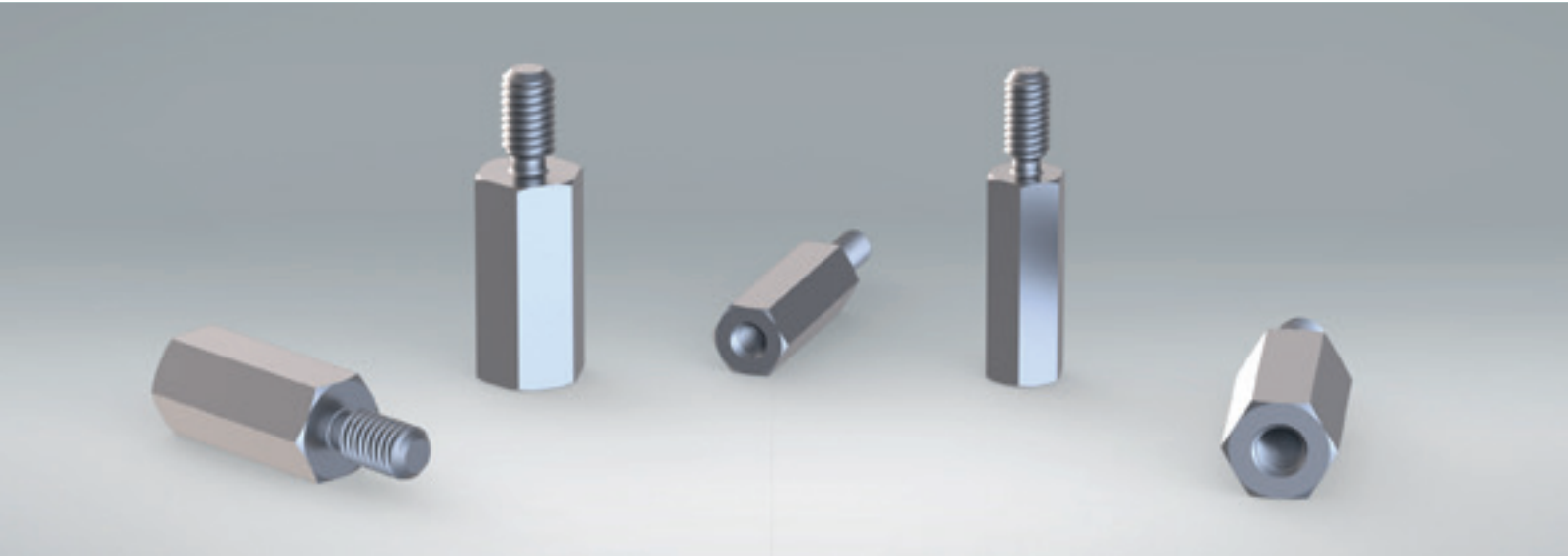
A	B	C	D	E	F	H	J	Part number
M3	0.3	5	2.5	SW5.5	5	1.25	M3	06.2.0401
M3	0.3	5	3.5	SW5.5	6	1.25	M3	06.2.0402
M3	0.3	5	min. 3	SW5.5	6	1.25	M3	06.2.0403
M3	0.3	6	2.5	SW5.5	6	1.25	M3	06.2.0404
M3	0.3	7	4.5	SW5.5	6	1.25	M3	06.2.0405
M3	0.3	8	5	SW5.5	6	1.25	M3	06.2.0406
M3	0.3	8.5	6	SW5.5	6	1.25	M3	06.2.0407
M3	0.3	9	7	SW5.5	6	1.25	M3	06.2.0408
M3	0.3	9.5	7	SW5.5	6	1.25	M3	06.2.0409
M3	0.3	10	6.5	SW5.5	6	1.25	M3	06.2.0410
M3	0.3	10	6.5	SW5.5	8	1.25	M3	06.2.0411
M3	0.3	11	7	SW5.5	6	1.25	M3	06.2.0412
M3	0.3	12	7	SW5.5	6	1.25	M3	06.2.0413
M3	0.3	13	7	SW5.5	6	1.25	M3	06.2.0414
M3	0.3	14	7	SW5.5	6	1.25	M3	06.2.0415
M3	0.3	14	7	SW5.5	8	1.25	M3	06.2.0416

Measurements B-D, F - H in mm

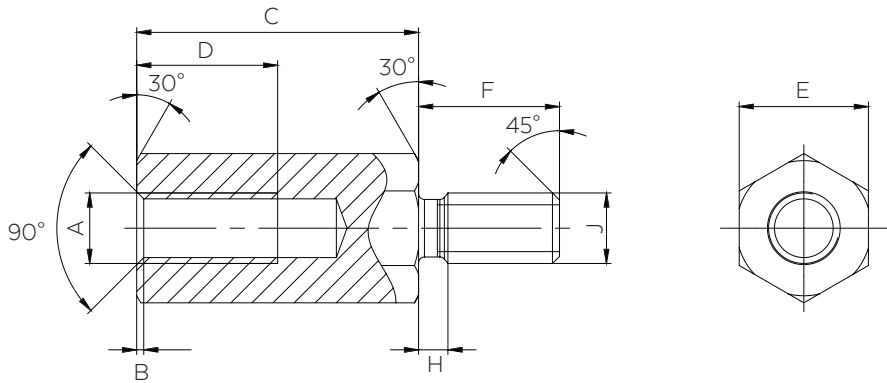
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POWER SPACER
INTERNAL-EXTERNAL, M3



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.04XX

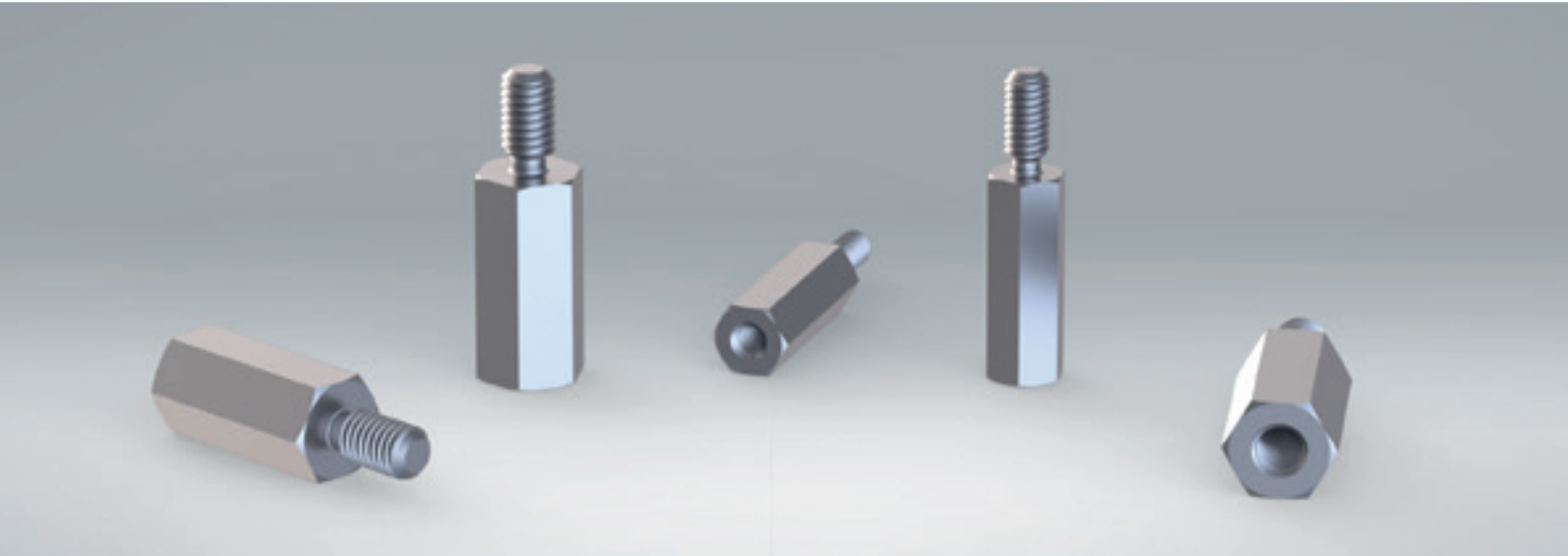
TECHNICAL DATA

A	B	C	D	E	F	H	J	Part number
M3	0.3	15	7	SW5.5	6	1.25	M3	06.2.0417
M3	0.3	16	7	SW5.5	6	1.25	M3	06.2.0418
M3	0.3	17	7	SW5.5	6	1.25	M3	06.2.0419
M3	0.3	18	7	SW5.5	6	1.25	M3	06.2.0420
M3	0.3	18.72	7	SW5.5	6	1.25	M3	06.2.0421
M3	0.3	20	7	SW5.5	6	1.25	M3	06.2.0422
M3	0.3	20.5	7	SW5.5	6	1.25	M3	06.2.0423
M3	0.3	22	7	SW5.5	6	1.25	M3	06.2.0424
M3	0.3	25	7	SW5.5	6	1.25	M3	06.2.0425
M3	0.3	30	7	SW5.5	6	1.25	M3	06.2.0426
M3	0.3	35	7	SW5.5	6	1.25	M3	06.2.0427
M3	0.3	37	7	SW5.5	6	1.25	M3	06.2.0428
M3	0.3	40	7	SW5.5	6	1.25	M3	06.2.0429
M3	0.3	42.5	7	SW5.5	6	1.25	M3	06.2.0430
M3	0.3	45	7	SW5.5	6	1.25	M3	06.2.0431
M3	0.3	60	7	SW5.5	6	1.25	M3	06.2.0432

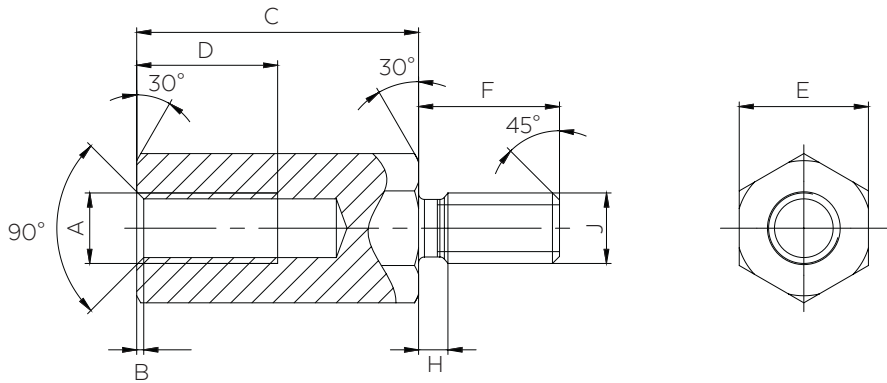
Measurements B - D, F - H in mm



POWER SPACER
INTERNAL-EXTERNAL, M3



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Steel 11SMnPb30C	galvanized, blue passivated (ISO 4042 A2K, Fe/Zn 8cB)	06.2.200X

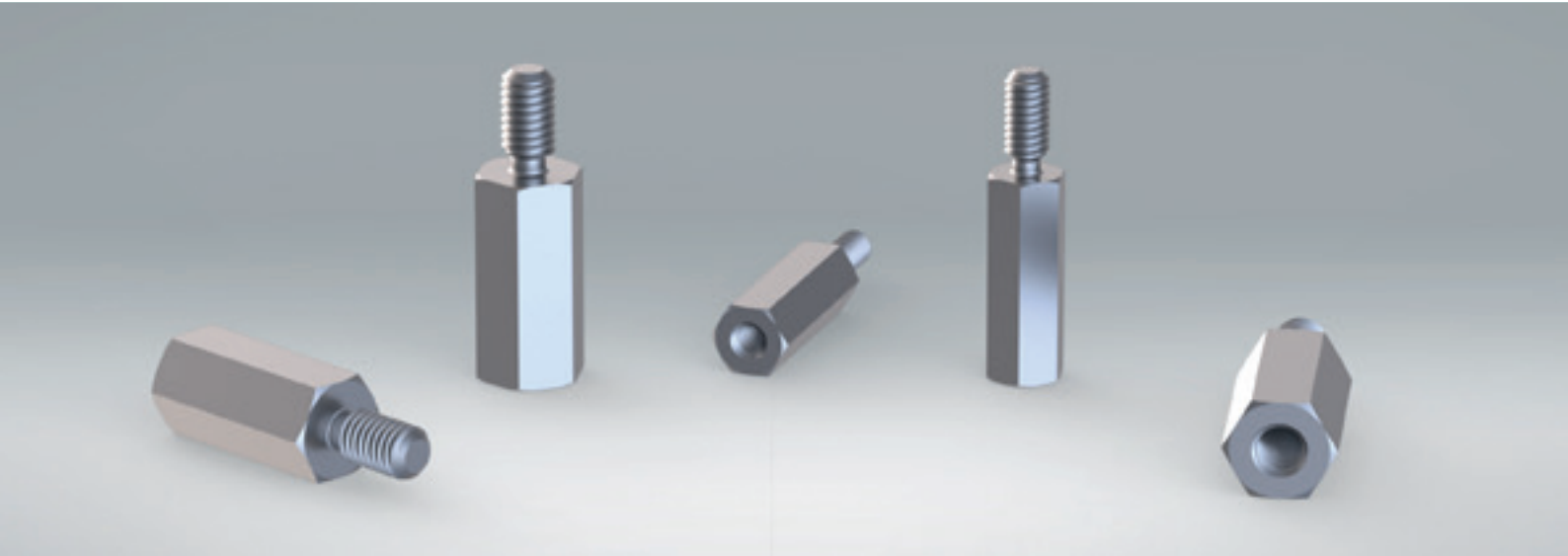
TECHNICAL DATA

A	B	C	D	E	F	H	J	Part number
M3	0.3	7	4.5	SW5.5	6	1.25	M3	06.2.2001
M3	0.3	7.5	4.5	SW5.5	6	1.25	M3	06.2.2002
M3	0.3	8	5	SW5.5	6	1.25	M3	06.2.2003
M3	0.3	9	6	SW5.5	6	1.25	M3	06.2.2004
M3	0.3	23	7	SW5.5	6	1.25	M3	06.2.2005
M3	0.3	30	7	SW5.5	6	1.25	M3	06.2.2006

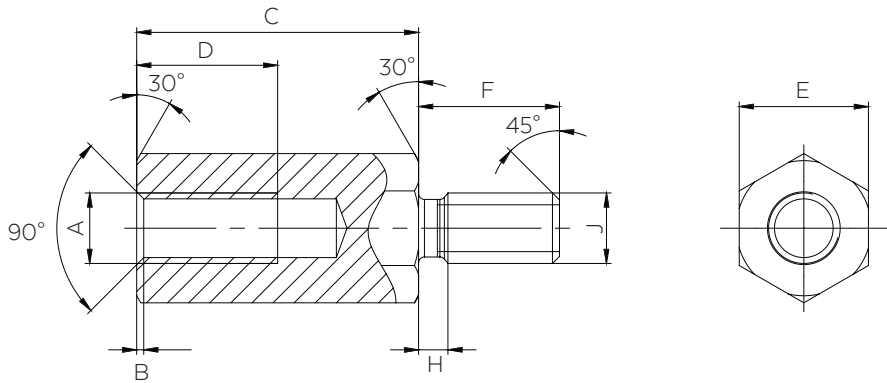
Measurements B - D, F - H in mm



POWER SPACER
INTERNAL-EXTERNAL, M3



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Steel 11SMnPb30C	galvanized, white (DIN 267 A2E galvanized 5 µm)	06.2.30XX

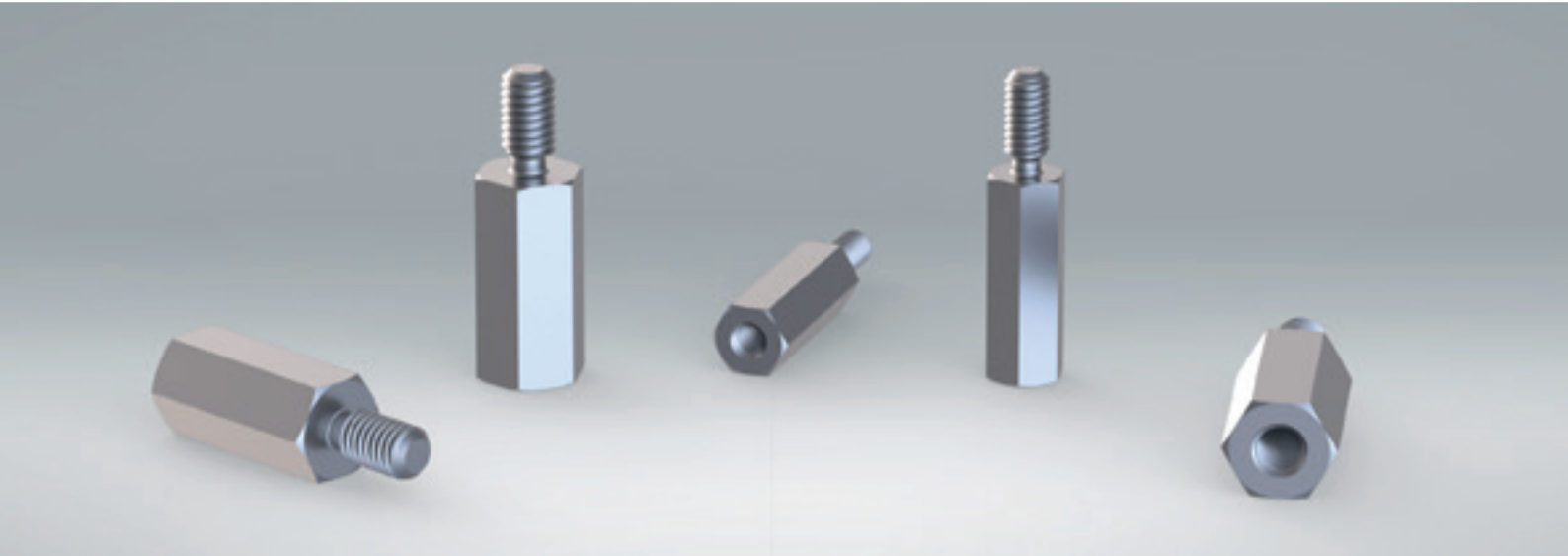
TECHNICAL DATA

A	B	C	D	E	F	H	J	Part number
M3	0.3	5	3	SW5.5	3.5	1.25	M3	06.2.3001
M3	0.3	5	2.5	SW5.5	6	1.25	M3	06.2.3002
M3	0.3	6	2.5	SW5.5	6	1.25	M3	06.2.3003
M3	0.3	7	4.5	SW5.5	6	1.25	M3	06.2.3004
M3	0.3	8.5	6	SW5.5	9	1.25	M3	06.2.3005
M3	0.3	8	5	SW5.5	6	1.25	M3	06.2.3006
M3	0.3	10	6.5	SW5.5	6	1.25	M3	06.2.3007
M3	0.3	12	7	SW5.5	6	1.25	M3	06.2.3008
M3	0.3	15	7	SW5.5	6	1.25	M3	06.2.3009
M3	0.3	20	7	SW5.5	6	1.25	M3	06.2.3010
M3	0.3	25	7	SW5.5	6	1.25	M3	06.2.3011
M3	0.3	28	7	SW5.5	6	1.25	M3	06.2.3012
M3	0.3	30	7	SW5.5	6	1.25	M3	06.2.3013
M3	0.3	40	7	SW5.5	6	1.25	M3	06.2.3014

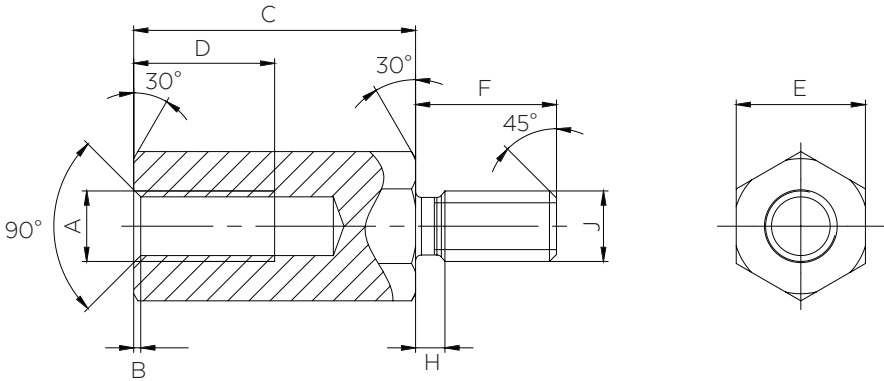
Measurements B-D, F - H in mm



POWER SPACER
INTERNAL-EXTERNAL, M3



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



TECHNICAL DATA

A	B	C	D	E	F	H	J	Part number
M3	0.3	7	4.5	SW5.5	6	1.25	M3	06.2.4001
M3	0.3	7.5	4.5	SW5.5	6	1.25	M3	06.2.4002
M3	0.3	8	5	SW5.5	6	1.25	M3	06.2.4003
M3	0.3	9	6	SW5.5	6	1.25	M3	06.2.4004
M3	0.3	17	7	SW5.5	6	1.25	M3	06.2.4005
M3	0.3	23	7	SW5.5	6	1.25	M3	06.2.4006
M3	0.3	30	7	SW5.5	6	1.25	M3	06.2.4007

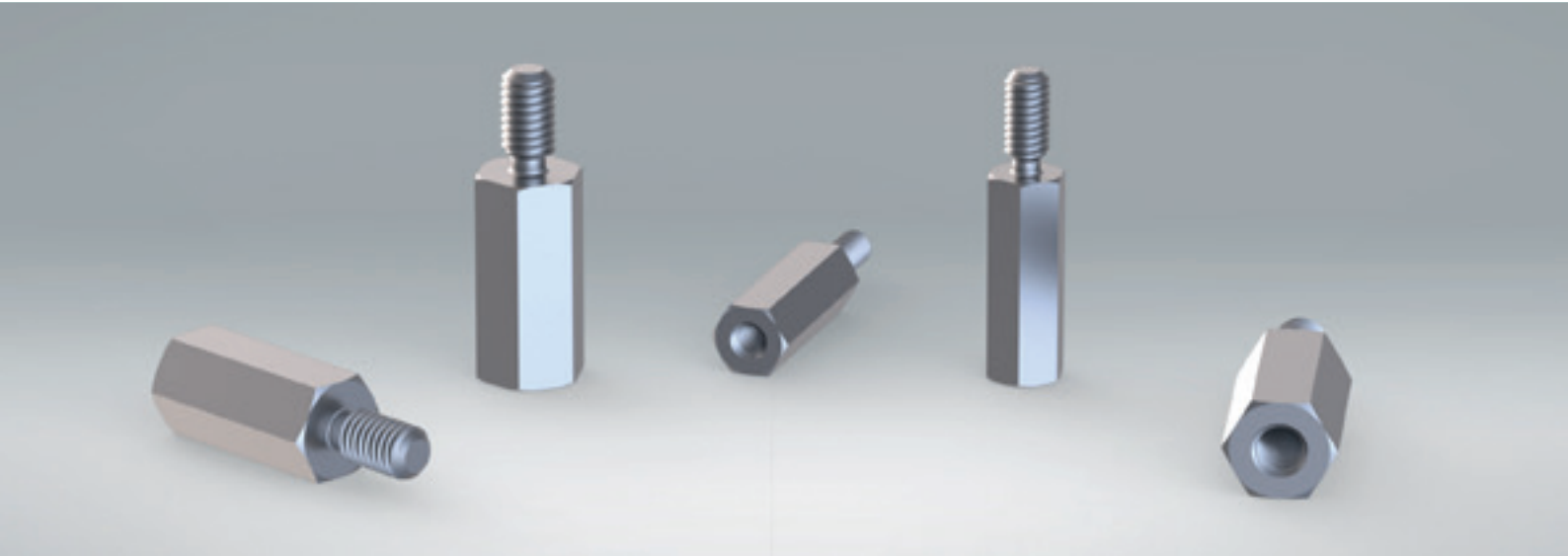
Measurements B-D, F - H in mm

MATERIAL INFORMATION

Material	Surface	Part number
Steel 11SMnPb30C	galvanized, yellow chromated (ISO 4042 A3G, Fe/Zn 8cC)	06.2.400X



POWER SPACER
INTERNAL-EXTERNAL, M4



PRODUCT SPECIFICATION

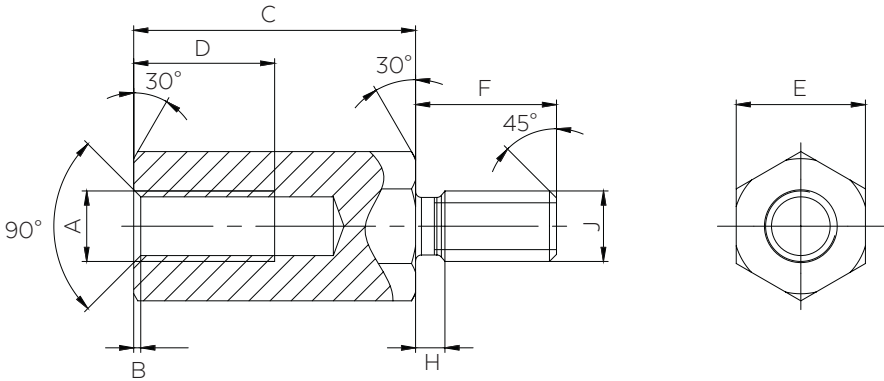
- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.05XX

SCALE DRAWINGS



TECHNICAL DATA

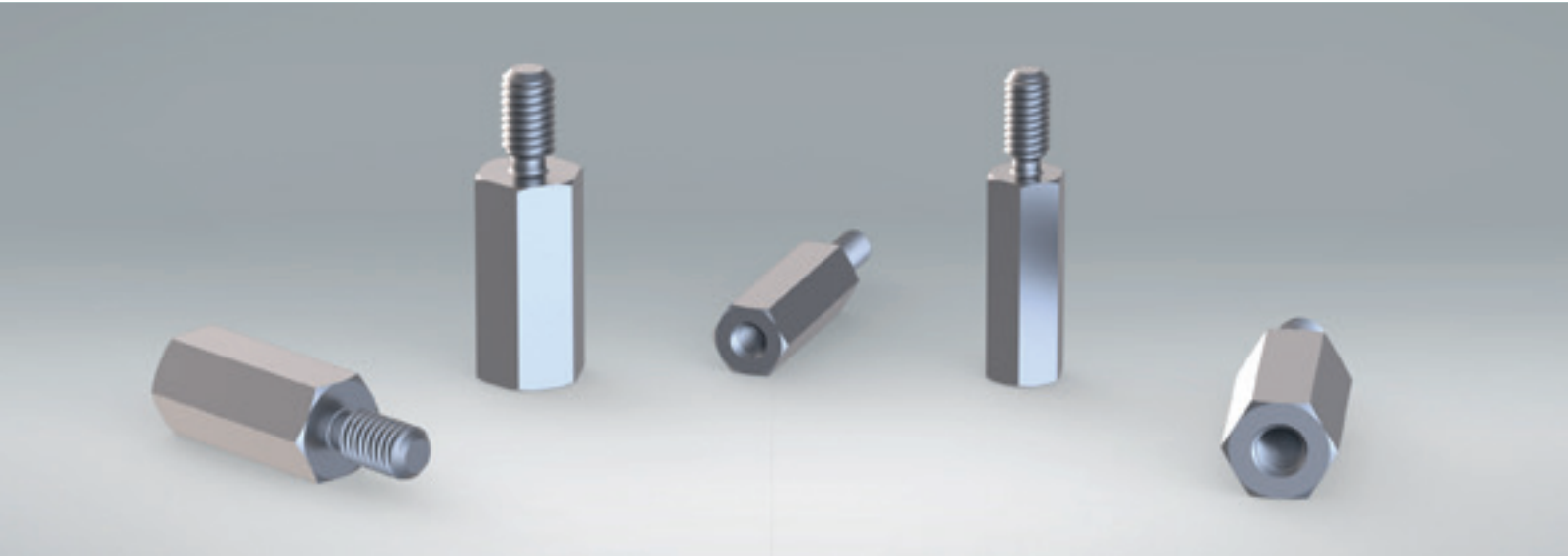
A	B	C	D	E	F	H	J	Part number
M4	0.45	5	2.3	SW7	8	1.75	M4	06.2.0501
M4	0.45	6	4	SW7	5	1.75	M4	06.2.0502
M4	0.45	7	4.5	SW7	8	1.75	M4	06.2.0503
M4	0.45	8	4.5	SW7	8	1.75	M4	06.2.0504
M4	0.45	10	6	SW7	8	1.75	M4	06.2.0505
M4	0.45	12	9	SW7	8	1.75	M4	06.2.0506
M4	0.45	12	9	SW7	10	1.75	M4	06.2.0507
M4	0.45	14	9	SW7	8	1.75	M4	06.2.0508
M4	0.45	15	9	SW7	8	1.75	M4	06.2.0509
M4	0.45	17	9	SW7	8	1.75	M4	06.2.0510

Measurements B - D, F - H in mm

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POWER SPACER
INTERNAL-EXTERNAL, M4



PRODUCT SPECIFICATION

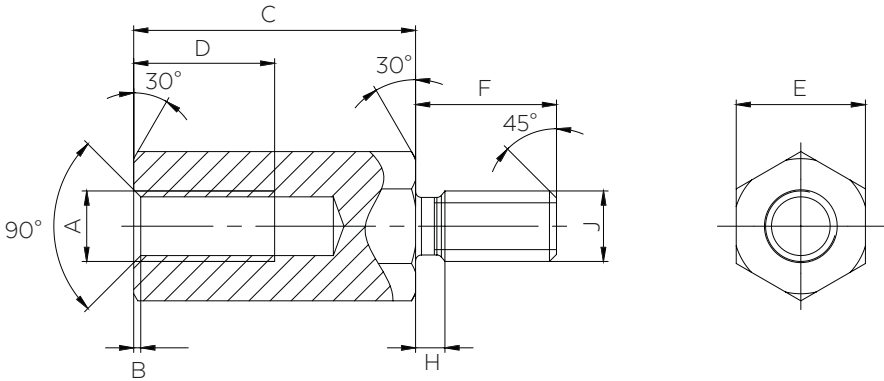
- Hexagonal spacer bolts with internal and external threads
- For exact distancing of different components
- Prevent mechanical contact between components
- For precise, durable and efficient circuit-board construction
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.2.05XX

SCALE DRAWINGS



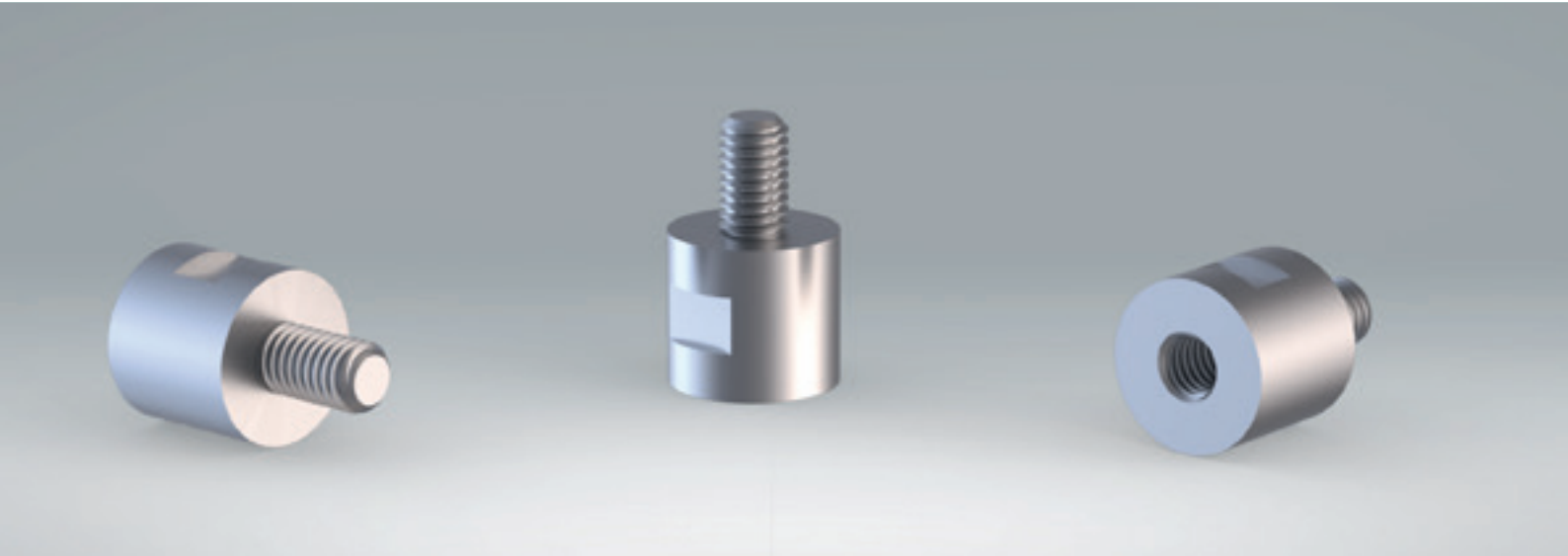
TECHNICAL DATA

A	B	C	D	E	F	H	J	Part number
M4	0.45	18	9	SW7	8	1.75	M4	06.2.0511
M4	0.45	20	9	SW7	8	1.75	M4	06.2.0512
M4	0.45	25	9	SW7	8	1.75	M4	06.2.0513
M4	0.45	27	9	SW7	8	1.75	M4	06.2.0514
M4	0.45	30	9	SW7	8	1.75	M4	06.2.0515
M4	0.45	32	9	SW7	8	1.75	M4	06.2.0516
M4	0.45	35	9	SW7	8	1.75	M4	06.2.0517
M4	0.45	45	9	SW7	8	1.75	M4	06.2.0518
M4	0.45	55	9	SW7	8	1.75	M4	06.2.0519

Measurements B - D, F - H in mm



POWER SPACER
INTERNAL-EXTERNAL, M6



PRODUCT SPECIFICATION

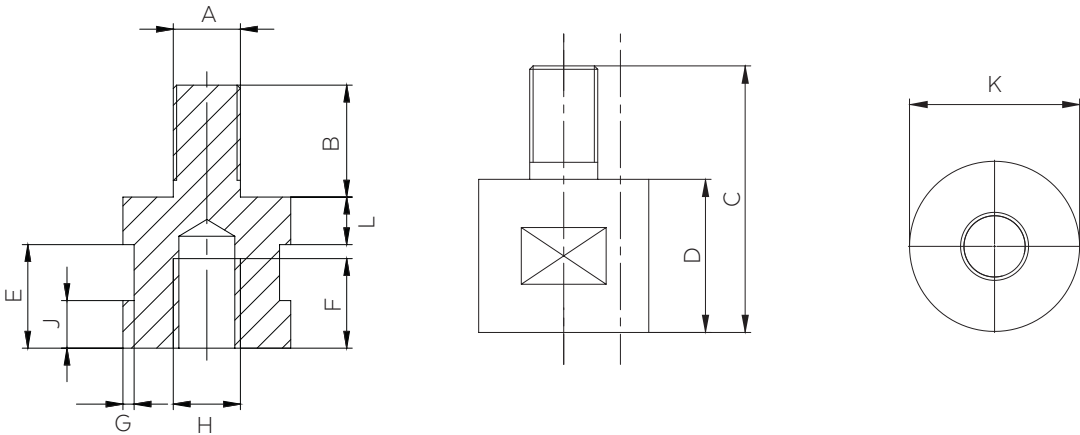
- Round spacer bolts with internal and external threads
- For exact spacing between different components or to define a uniform gap
- For the optimal and precise solution of your construction task
- Easy to use and highly versatile
- RoHS compliant



MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	verzinnt	06.7.0001

SCALE DRAWINGS



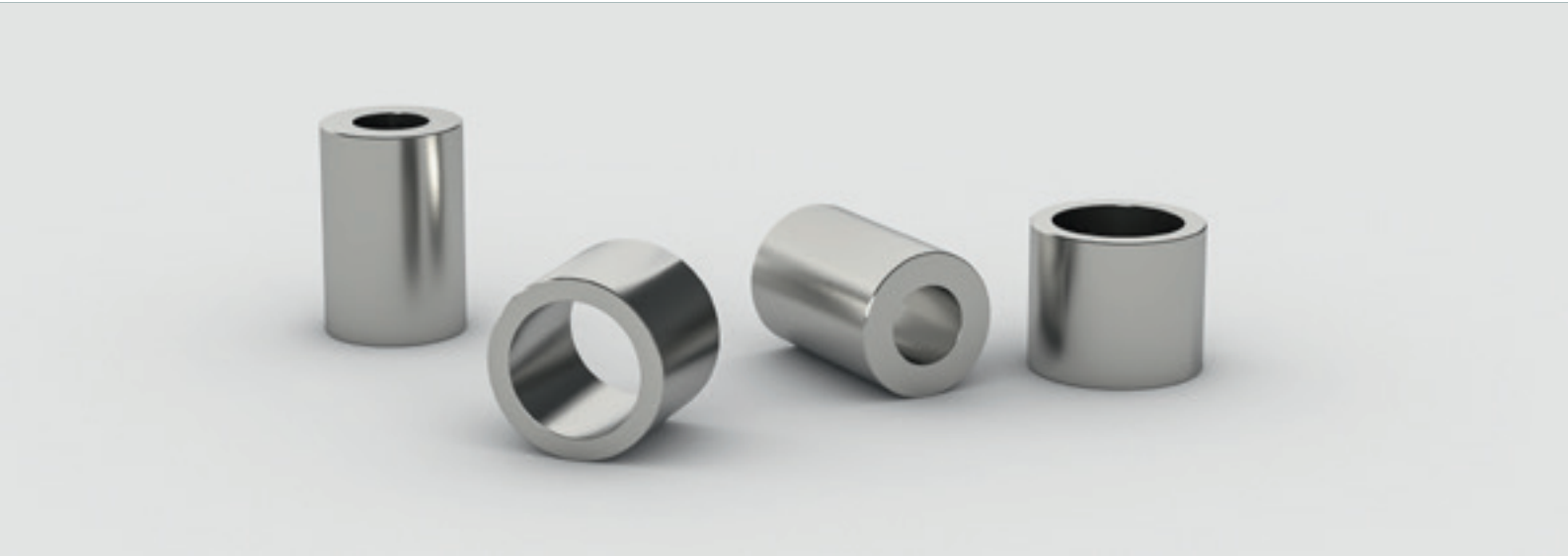
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	K	L	Part number
M6	10	23.5	13.5	9.25	8	1	M6	4.25	Ø 15	4.25	06.7.0001

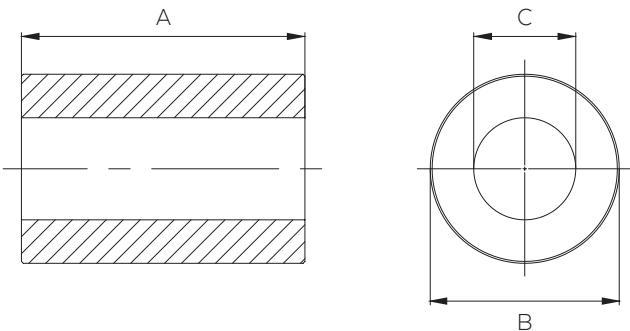
Measurements B – G und J – L in mm



POWER SPACER
SPACER ROLLERS, WITHOUT THREAD



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Spacer rollers/distance sleeves without thread
- For exact distancing of different components
- Prevent mechanical contact between components
- For an optimal and precise solution of your construction task
- Can be mounted with a screw exactly as required and can be used in a variety of ways
- RoHS compliant



TECHNICAL DATA

A	B	C	Part number
5	Ø 10	Ø 5.4	06.4.0001
10	Ø 10	Ø 5.4	06.4.0002
15	Ø 10	Ø 5.4	06.4.0003
20	Ø 10	Ø 5.4	06.4.0004
10.2	Ø 12	Ø 9	06.4.0005

Measurements A - C in mm

MATERIAL INFORMATION

Material	Surface	Part number
Brass CuZn39Pb3	nickel-plated (DIN 267 E1E gal. Ni 3)	06.4.000X
A2 stainless steel	rustproof	06.4.0005



POWER SPACER

BOARD2BOARD, PINS ON BOTH SIDES, FULL SURFACE



PRODUCT SPECIFICATION

- Extremely robust high-performance connection between circuit-boards or between circuit-board and copper bar
- Perfectly suited for complex connections and confined spaces
- Busbar
- Extremely durable, robust, vibration-resistant
- Suitable for high currents
- High durability and reliability even in demanding mechanical and electrical scenarios
- Ultimate performance over full machine or system life-time
- Press-fit technology
- RoHS compliant, REACH compliant



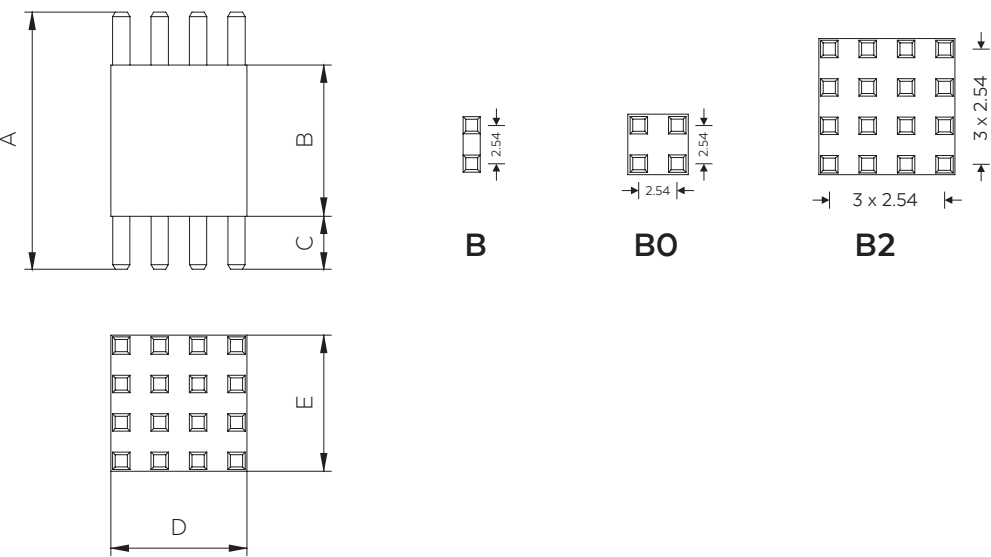
MATERIAL INFORMATION

Option	Part number
BlueBrass	06.6.000X.BB



Our 06.6.000X.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	No. of Pins	Current class	Part number
17	10	3.5	9	9	16	150 Ampere	06.6.0001
10	3	3.5	4	4	4	50 Ampere	06.6.0002
10	3	3.5	1.131	3.671	2	25 Ampere	06.6.0003

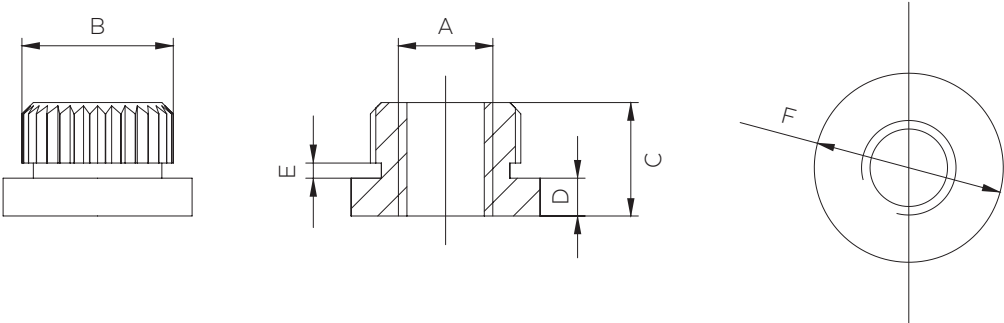
Measurements A - E in mm



POWER SPACER FLEX
POWER SOCKET, ROUND



SCALE DRAWINGS



PRODUCT SPECIFICATION

- Maximum flexibility and precision for your circuit-board connections
- Combine screwing, soldering, and press-fitting as required
- We supply a customized Power Spacer for your specific application
- Perfectly suited for complex connections and confined spaces
- Spacer bolt features a special grooved surface for press-fitting
- The other side of the bolt can come with an internal, an external thread or no thread at all
- Ensures durable precision spacing between different components
- Permanent prevention of unwanted mechanical contact between individual components
- Durable, robust, vibration-resistant
- Easy and high-precision handling
- RoHS compliant



TECHNICAL DATA

A	B	C	D	E	F	Model	Part number
M2.5	4	3	1	0.4	Ø 5	Power Socket	06.5.0015

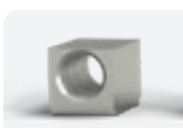
Measurements B – F in mm

MATERIAL INFORMATION

Material	Surface	Part number
Steel X8CrNiS18-9	rustproof	06.5.0015



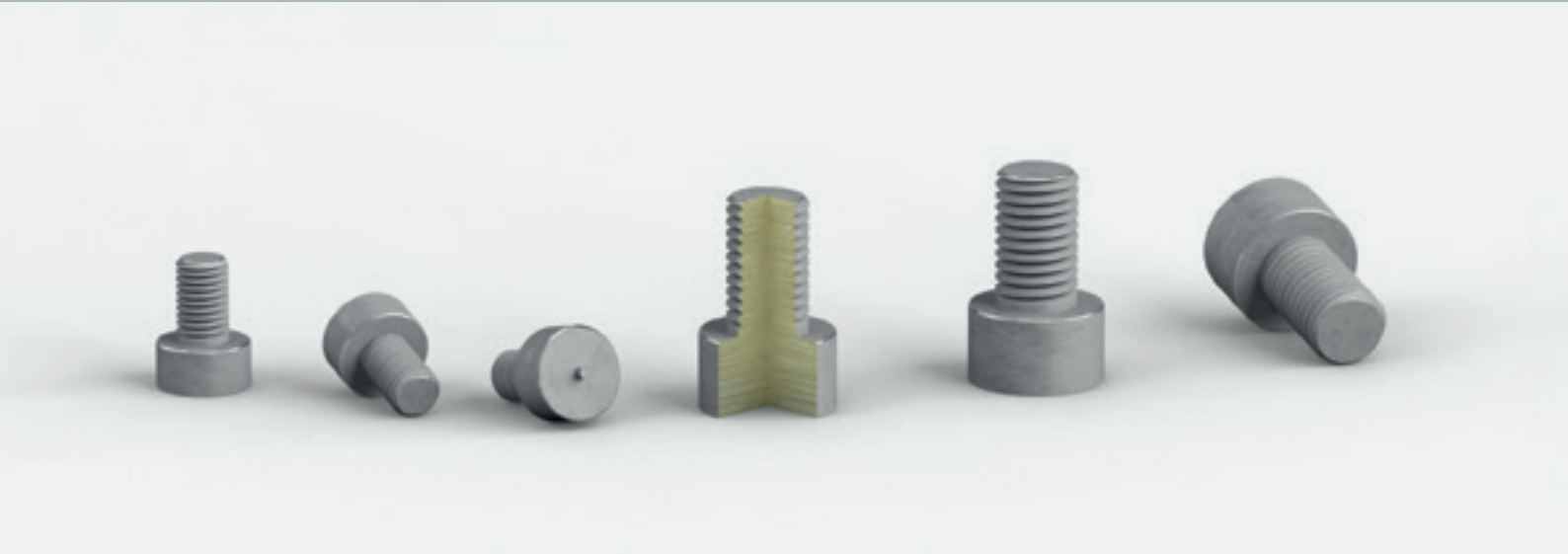
PRODUCT OVERVIEW
SMT SOLDERING

	Diameter	7	9	13	16
	POWER TOWER SMD	M3	M4 M5	M6 M8	M10
	POWER TOWER SMD with spigot	M3	M4 M5	M6 M8	M10
	POWER SOCKET SMD	M3	M4 M5	M6 M8	M10
	POWER SOCKET SMD with spigot	M3	M4 M5	M6 M8	M10
	POWER SMD with full-length thread	M3	M4 M5	M6 M8	M10
	POWER EDGE SMD	M3: Full-length internal thread		Ø 3.3: Through hole	
	POWER EDGE SMD with spigot	M3: Full-length internal thread		Ø 3.3: Through hole	





POWER TOWER SMD EXTERNAL THREAD



PRODUCT SPECIFICATION

- SMT soldering
- Available with or without spigot
- Suitable for fully automatic assembly
- UNC thread or custom alterations on demand
- For attaching cable lugs to PCBs
- RoHS compliant, REACH compliant

MATERIAL INFORMATION

Option	Part number
BlueBrass	01.6.00XX.BB

PACKAGING INFORMATION

Option	Part number
Bulk	01.6.00XX
Taped	01.6.00XX.GU
Taped (BlueBrass)	01.6.00XX.BBGU
Taped with Kapton	01.6.00XX.GUDD*

*DD = Diameter of Kapton pad

REACH
RoHS
COMPLIANT
NEW VERSION

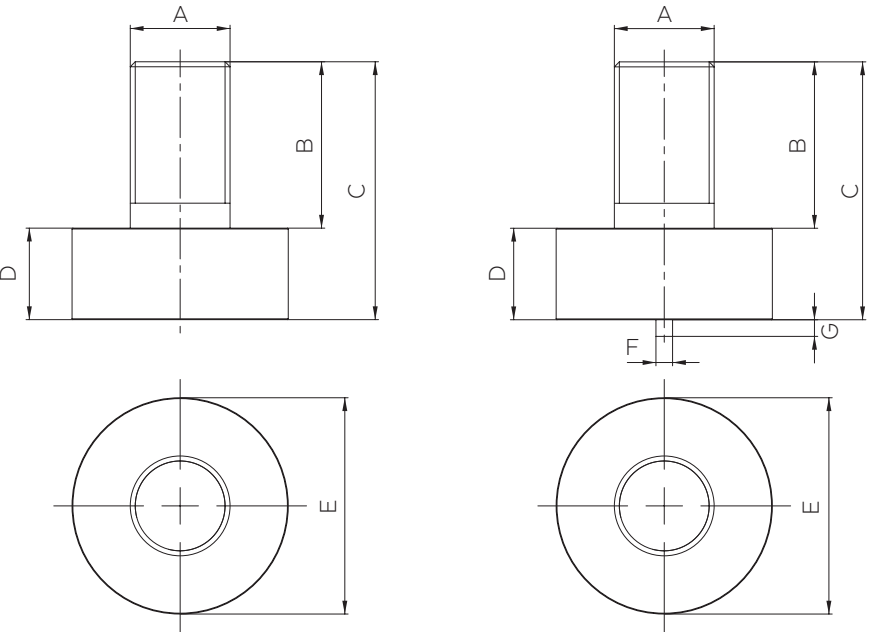
Our 01.6.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	G	Spigot	Part number
M3	5	8	3	Ø 7	-	-	Nein	01.6.0001
M4	6	9.5	3.5	Ø 9	-	-	Nein	01.6.0002
M5	8	12.5	4.5	Ø 9	-	-	Nein	01.6.0003
M6	10	15.5	5.5	Ø 13	-	-	Nein	01.6.0004
M8	13	20.5	7.5	Ø 13	-	-	Nein	01.6.0005
M10	16	24	8	Ø 16	-	-	Nein	01.6.0006
M3	5	8	3	Ø 7	Ø 1	1	Ja	01.6.0007
M4	6	9.5	3.5	Ø 9	Ø 1	1	Ja	01.6.0008
M5	8	12.5	4.5	Ø 9	Ø 1	1	Ja	01.6.0009
M6	10	15.5	5.5	Ø 13	Ø 1	1	Ja	01.6.0010
M8	13	20.5	7.5	Ø 13	Ø 1	1	Ja	01.6.0011
M10	16	24	8	Ø 16	Ø 1	1	Ja	01.6.0012

Measurements B - G in mm



POWER SOCKET SMD INTERNAL THREAD



PRODUCT SPECIFICATION

- SMT soldering
- Available with or without spigot
- Suitable for fully automatic assembly
- UNC thread or custom alterations on demand
- For attaching cable lugs to PCBs
- RoHS compliant, REACH compliant

MATERIAL INFORMATION

Option	Part number
BlueBrass	02.6.00XX.BB

PACKAGING INFORMATION

Option	Part number
Bulk	02.6.00XX
Taped	02.6.00XX.GU
Taped (BlueBrass)	02.6.00XX.BBGU
Taped with Kapton	02.6.00XX.GUDD*

*DD = Diameter of Kapton pad

REACH
RoHS
COMPLIANT
NEW VERSION

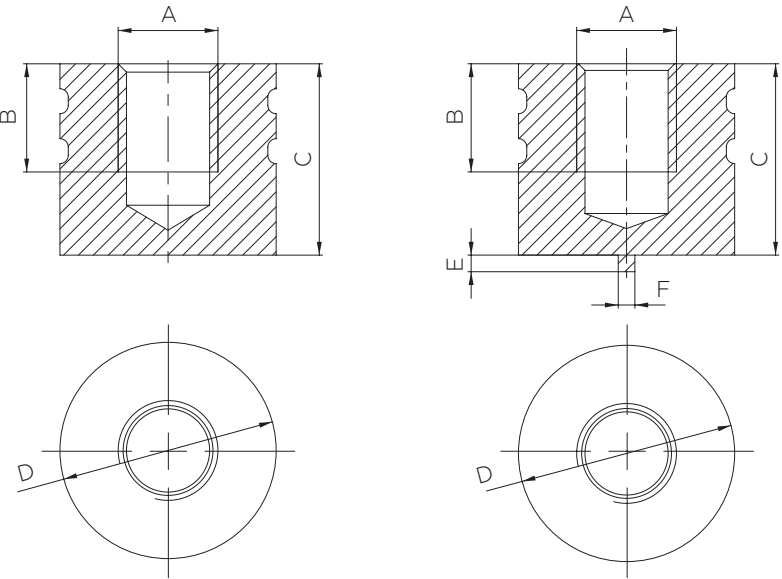
Our 02.6.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	Spigot	Part number
M3	3,5	6	Ø 7	-	-	Nein	02.6.0054
M4	4	7	Ø 9	-	-	Nein	02.6.0055
M5	4	7	Ø 9	-	-	Nein	02.6.0056
M6	6,5	11,5	Ø 13	-	-	Nein	02.6.0057
M8	8	13,5	Ø 13	-	-	Nein	02.6.0058
M10	11	17,5	Ø 16	-	-	Nein	02.6.0059
M3	3,5	6	Ø 7	1	Ø 1	Ja	02.6.0060
M4	4	7	Ø 9	1	Ø 1	Ja	02.6.0061
M5	4	7	Ø 9	1	Ø 1	Ja	02.6.0062
M6	6,5	11,5	Ø 13	1	Ø 1	Ja	02.6.0063
M8	8	13,5	Ø 13	1	Ø 1	Ja	02.6.0064
M10	11	17,5	Ø 16	1	Ø 1	Ja	02.6.0065

Measurements B - F in mm



POWER SOCKET SMD
FULL-LENGTH INTERNAL THREAD



PRODUCT SPECIFICATION

- SMT soldering
- Suitable for fully automatic assembly
- UNC thread or custom alterations on demand
- For attaching cable lugs to PCBs
- RoHS compliant, REACH compliant

MATERIAL INFORMATION

Option	Part number
BlueBrass	02.6.00XX.BB

PACKAGING INFORMATION

Option	Part number
Bulk	02.6.00XX
Taped	02.6.00XX.GU
Taped (BlueBrass)	02.6.00XX.BBGU
Taped with Kapton	02.6.00XX.GUDD*

*DD = Diameter of Kapton pad

REACH
RoHS
COMPLIANT
NEW VERSION

Our 02.6.00XX.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

RoHS
COMPLIANT

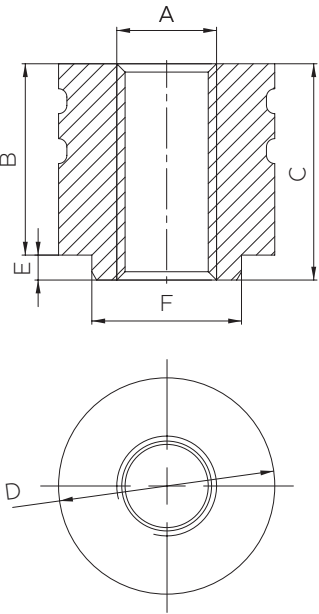
REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

NOTE

Please note that the torque specifications from page 21 and page 154 for the Power Socket SMD internal threads are **max. 70 %** throughout.

SCALE DRAWINGS



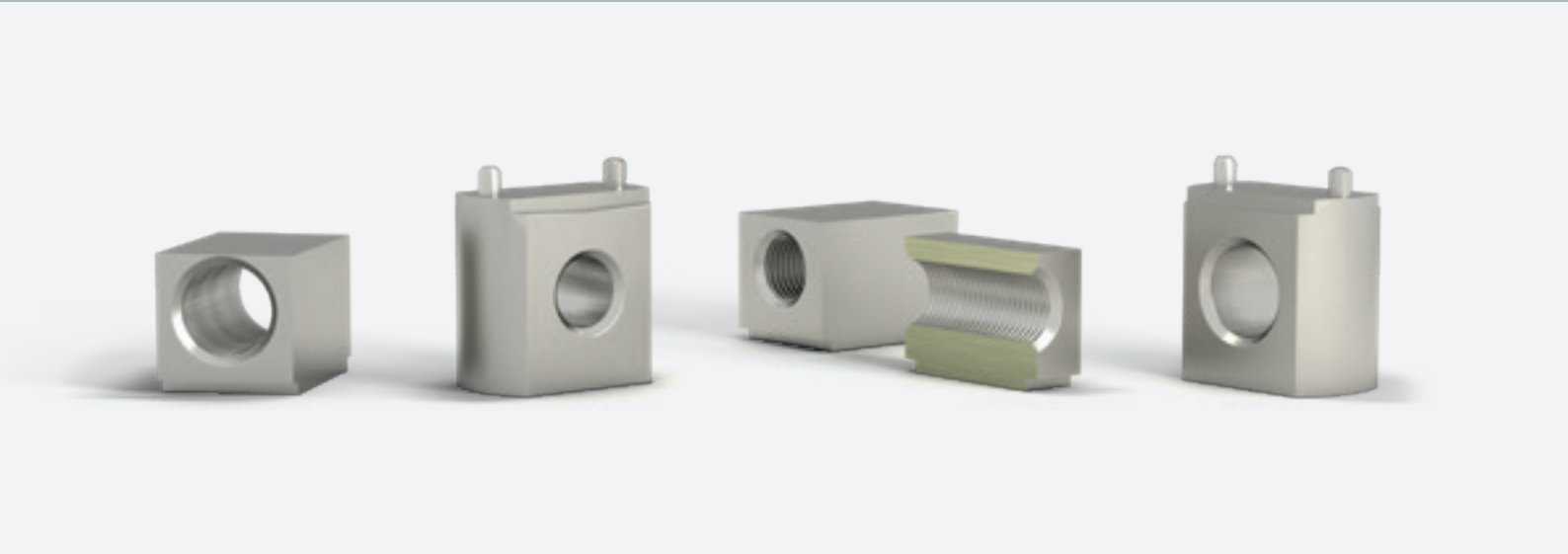
TECHNICAL DATA

A	B	C	D	E	F	Part number
M3	6	7.5	Ø 7	1.5	Ø 5.0	02.6.0066
M4	7	8.5	Ø 9	1.5	Ø 6.0	02.6.0067
M5	7	8.5	Ø 9	1.5	Ø 6.0	02.6.0068
M6	11.5	13	Ø 13	1.5	Ø 9.0	02.6.0069
M8	13.5	15	Ø 13	1.5	Ø 9.0	02.6.0070
M10	17.5	19	Ø 16	1.5	Ø 12.0	02.6.0071

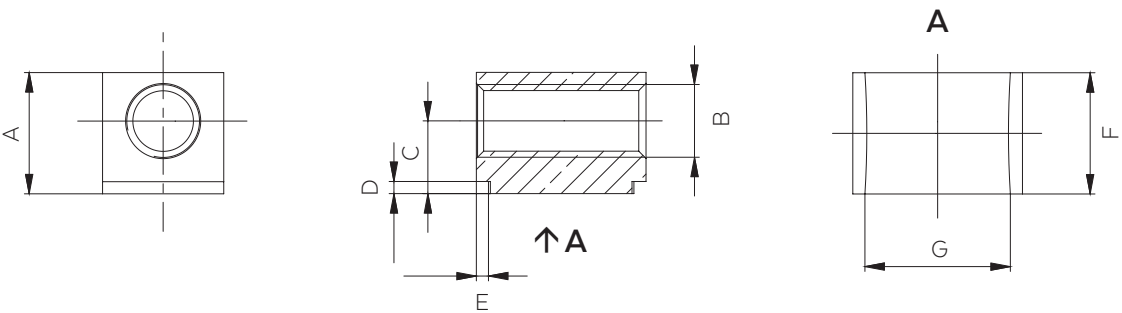
Measurements B - F in mm



POWER EDGE SMD
FULL-LENGTH INTERNAL THREAD



SCALE DRAWINGS



PRODUCT SPECIFICATION

- SMT soldering
- Suitable for fully automatic assembly
- UNC thread or custom alterations on demand
- For attaching components to PCBs
- RoHS compliant, REACH compliant



MATERIAL INFORMATION

Option	Part number
BlueBrass	03.6.000X.BB



Our 03.6.000X.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

PACKAGING INFORMATION

Option	Part number
Bulk	03.6.000X
Taped	03.6.000X.GU
Taped (BlueBrass)	03.6.000X.BBGU
Taped with Kapton	03.6.000X.GUDD*

*DD = Diameter of Kapton pad

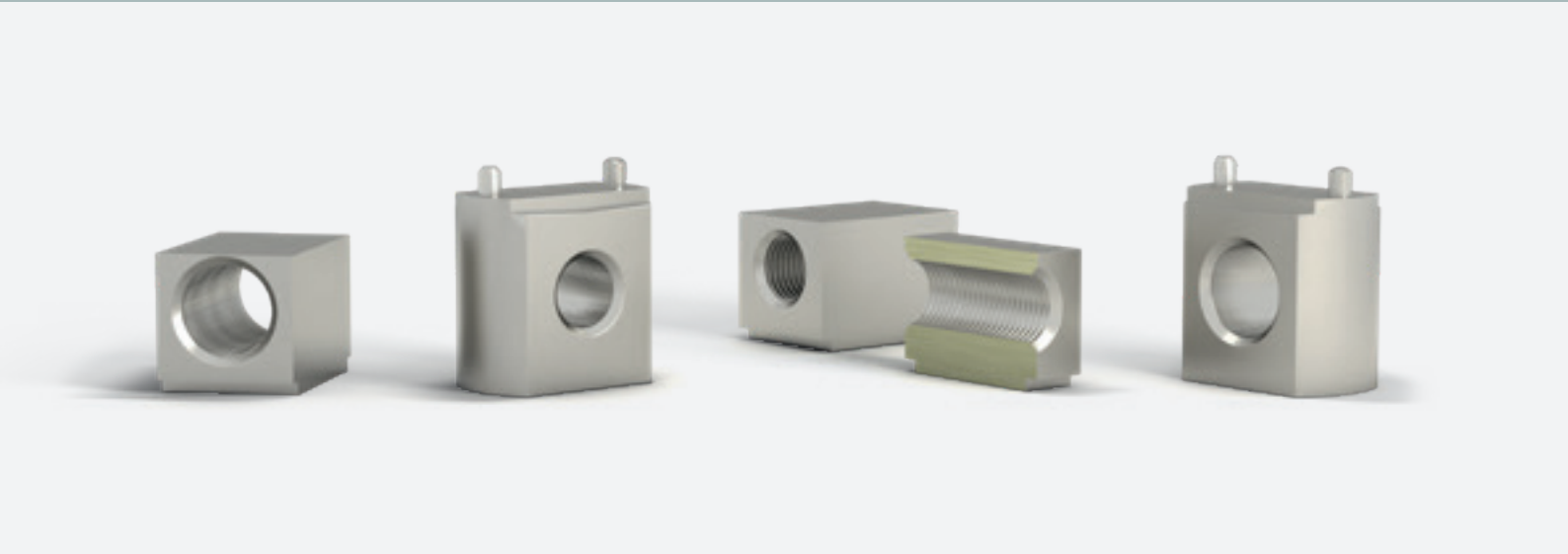
TECHNICAL DATA

A	B	C	D	E	F	G	Spigot	Part number
5	M3	3	0.5	0.5	5	6	No	03.6.0001
5	Ø 3.3	3	0.5	0.5	5	6	No	03.6.0002

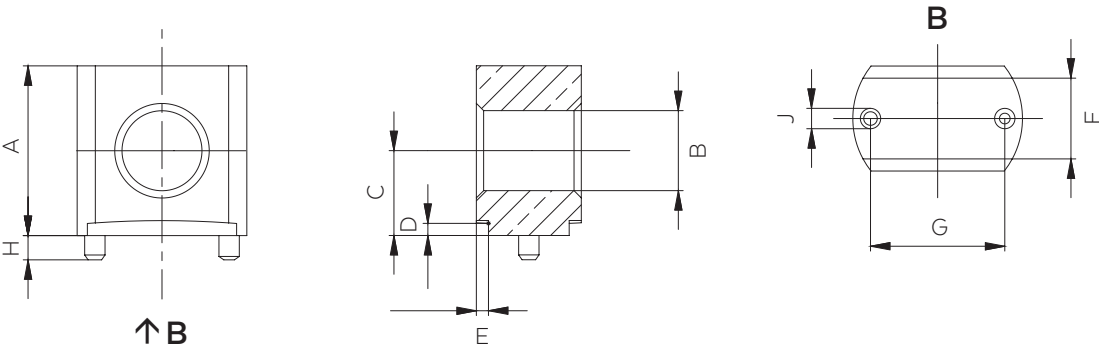
Measurements A - G in mm



POWER EDGE SMD
THROUGH HOLE



SCALE DRAWINGS



PRODUCT SPECIFICATION

- SMT soldering
- Suitable for fully automatic assembly
- UNC thread or custom alterations on demand
- For attaching components to PCBs
- RoHS compliant, REACH compliant



MATERIAL INFORMATION

Option	Part number
BlueBrass	03.6.000X.BB



Our 03.6.000X.BB product series already meet all the requirements of the the stricter REACH, RoHS and ELV regulations that will come into force in the future, as well as the future stricter regulation on the required lead-free status.

PACKAGING INFORMATION

Option	Part number
Bulk	03.6.000X
Taped	03.6.000X.GU
Taped (BlueBrass)	03.6.000X.BBGU
Taped with Kapton	03.6.000X.GUDD*

*DD = Diameter of Kapton pad

TECHNICAL DATA

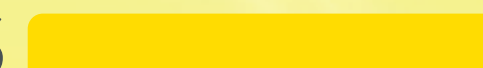
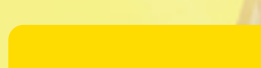
A	B	C	D	E	F	G	H	J	Spigot	Part number
7	M3	3.5	0.5	0.5	3.33	5.54	1	Ø 0.84	Yes	03.6.0003
7	Ø 3.3	3.5	0.5	0.5	3.33	5.54	1	Ø 0.84	Yes	03.6.0004

Measurements A - J in mm



CONNECTORS

YOU ARE ALWAYS PERFECTLY CONNECTED WITH US

FUSE HOLDERS 
RELAY SOCKETS 
PCB CONNECTORS 
CONTACT ELEMENTS 



PRODUCT OVERVIEW CONNECTORS

FUSE HOLDERS

Available in different versions.

- 1st Gen from page 168
- 2nd Gen from page 172
- 3rd Gen from page 210

RELAY SOCKETS

Available in different versions.

- 1st Gen from page 170
- 2nd Gen from page 184
- 3rd Gen from page 228

PCB CONNECTORS

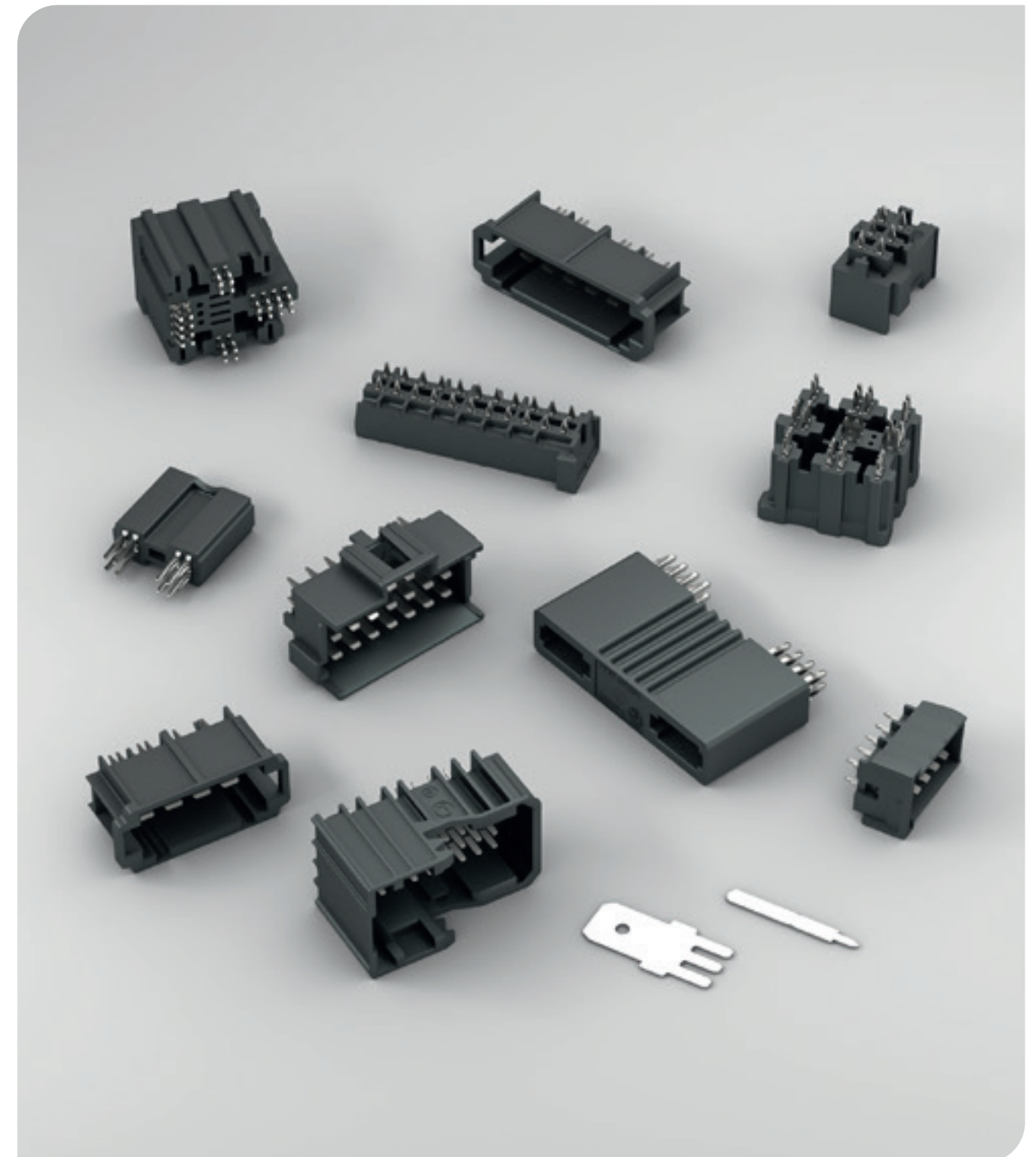
Available in different versions and colors.

- 2nd Gen from page 192
- 3rd Gen from page 244

CONTACT ELEMENTS

Available in modern press-fit technology (massive, flexible) and in soldering technology (THT).

- 2nd Gen from page 208
- 3rd Gen from page 264





SELECTION CRITERIA

FUSE HOLDER AND RELAY SOCKET FAMILIES



VIBRATIONS AND SHOCK RESISTANCE

Determines a component's robustness, stability and durability in extreme conditions.



RETENTION FORCE

Defines a component's contact reliability and stability in the respective environmental conditions. Higher retention force means higher contact stability.



CURRENT CARRYING CAPACITY

Indicates the power current category, in which this component can be operated. High current carrying capacity prevents undue heating during continuous load.



POTTING ABILITY

Describes a component's resistance against capillary effects. Pottable components can be seamlessly integrated into electronic assemblies.



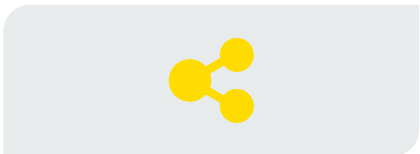
TEMPERATURE RESISTANCE

Indicates the maximum temperature (climate, external & operating temperatures) which a component can tolerate without losing its desired durability or functionality.



OPTIMIZED LAYOUT

Creates maximum integration flexibility of the component in limited space or when designing complex assemblies.



ADDED FUNCTIONS WITH ACCESSORIES

Our components feature even more flexibility with our high performance accessories, eg. [fuse mounts](#) and diode holders.



COST SAVINGS

The above criteria help you design the perfect component for your individual application. You only pay for the functions you really need!

SELECTION CRITERIA

APPLICATION CATEGORIES

HIGH DENSITY (HD)

For extreme or high security applications.

Application examples:

Construction machines, airplanes, medical engineering



MEDIUM (M)

Suitable for medium to high loads.

Application examples:

Beet harvester, snowcat, truck



LIGHT (L)

Suitable for no or low shock, vibration or other external impacts on the product.

Application examples:

Caravan, crane, aircraft tractors



PLEASE NOTE

All above recommendations are based on long experience and expertise to best support your component selection. However, please always have your final assemblies containing selected components perform a qualification

test to confirm desired reliability and durability performance. Please also note that we do not assume any liability, as each assembly will be subject to different framework conditions .



HOLE SPECIFICATIONS
POWER ELEMENTS

SSP LOS ANGELES
MASSIVE PRESS-FIT ZONE



Drilling diameter
1,600 ± 0.025 mm



Final diameter, tin
1,475 ± 0.05 mm



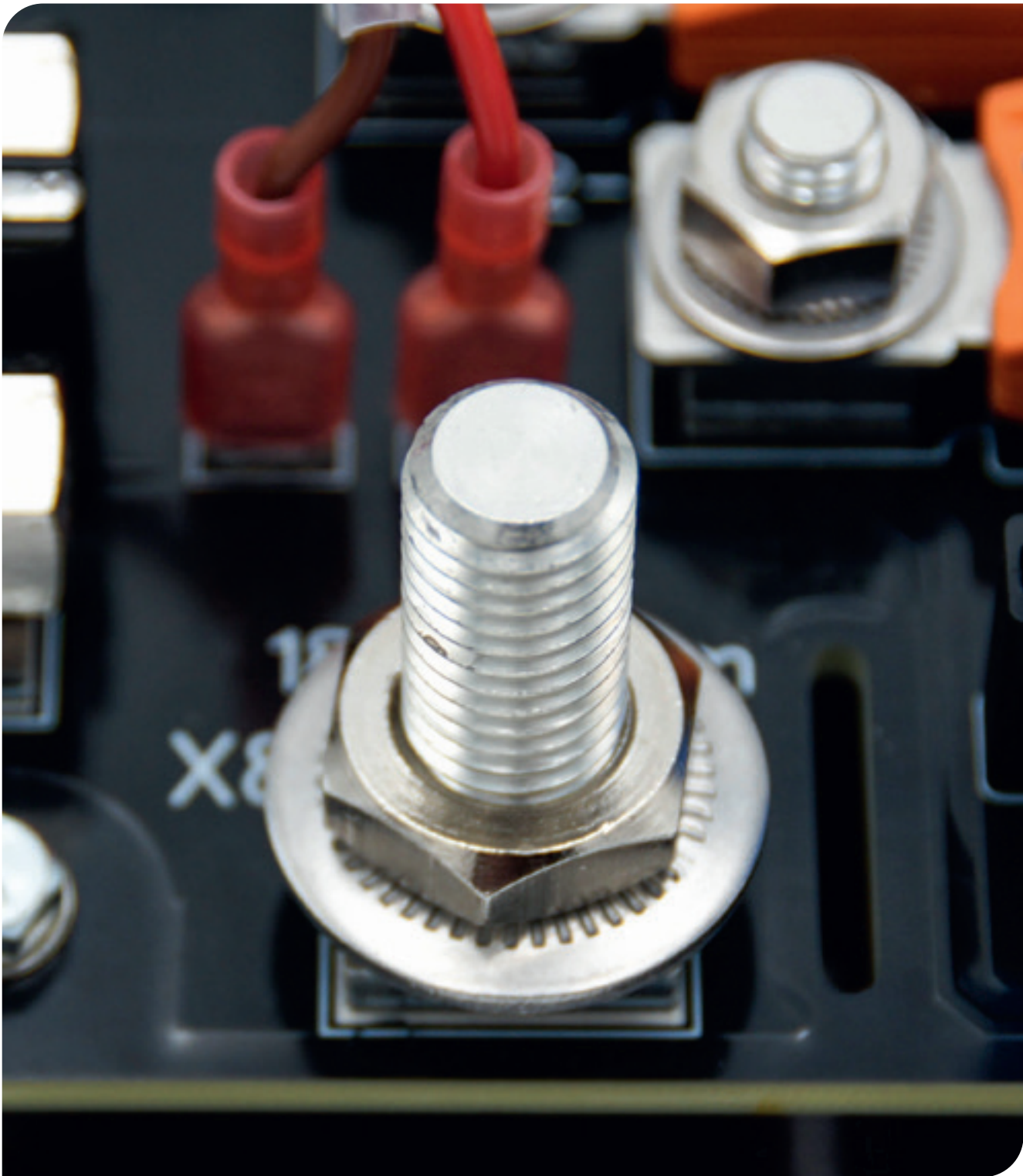
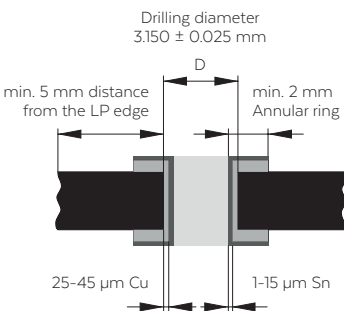
Final diameter, HAL surface	
1,450 ± 0.05 mm	
Cu – in hole:	min. 25 µm max. 80 µm
Annular ring:	min. 125 µm

NOTE

Drilling diameters and final diameters listed on these pages must be strictly observed in dependence on the PCB used, to ensure full press-fit functionality.

Final diameter, metal with min. Cu 25 µm (must not be smaller, even in parts). For HAL (covered edge) Ni/Au or tin; for circuit board thickness > 1.50 mm

SSP ATLANTA SEMI
MASSIVE
PRESS-FIT ZONE
BROX BREAK SERIES





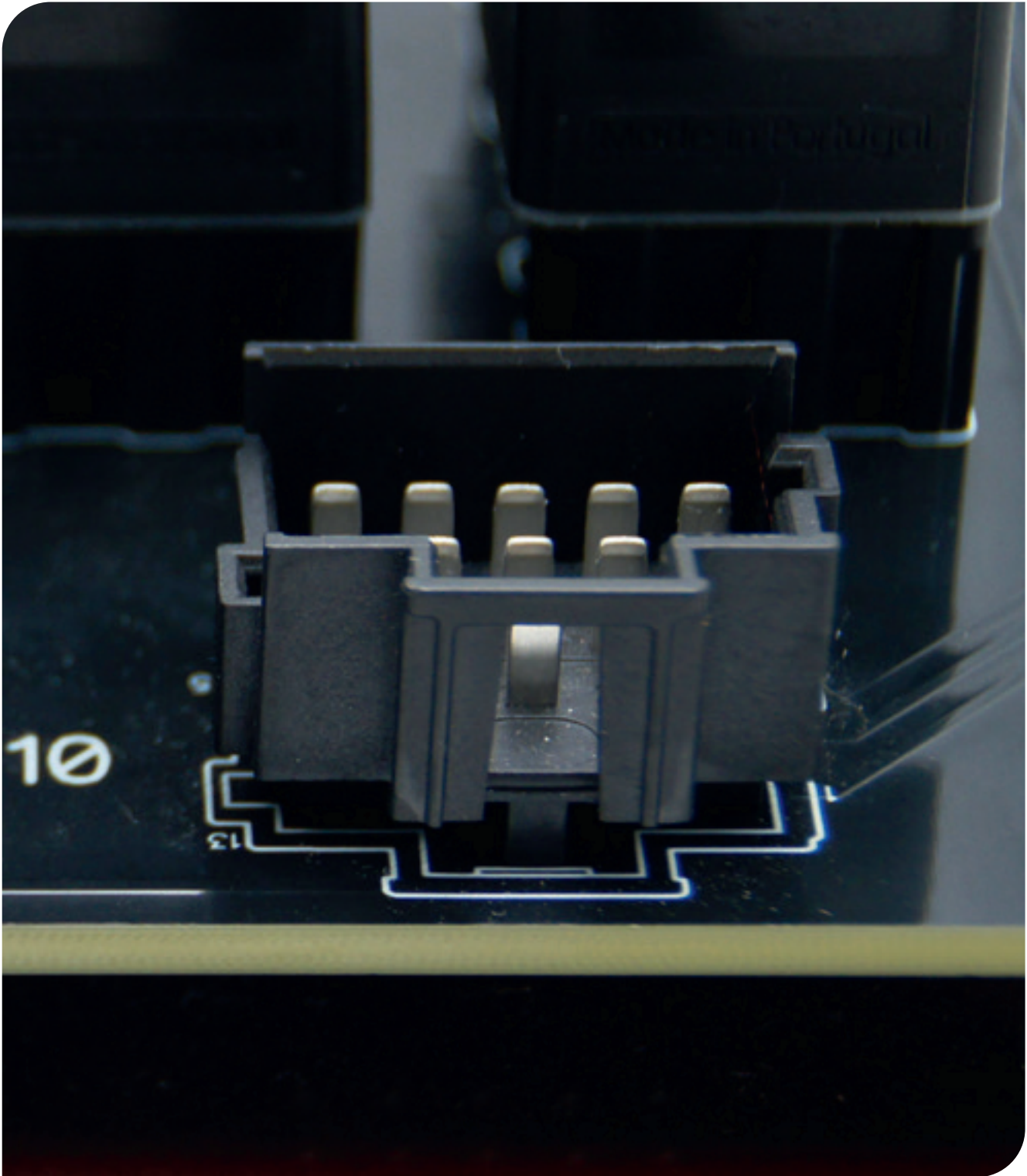
HOLE SPECIFICATIONS
CONNECTORS

PCB CONNECTOR, RELAY SOCKET AND FUSE HOLDER INFORMATION

	Drilling diameter	Final diameter depending on PCB surface			Note
System parameters PCB-Pin (MTCON- component) [SPP]	-	X [Surface X]	Y [Surface Y]	Z [Surface Z]	-
Material PCB surface	-	Sn OSP Ni/Au	HAL HAL lead-free	all common PCB surfaces	-
Los Angeles class (press-fit)	Ø 1.600 ± 0.025 mm	Ø 1.475 ± 0.05 mm	Ø 1.450 ± 0.05 mm	-	Please refer to chart on page 164
Denver class (press-fit)	Ø 1.200 ± 0.025 mm	Ø 1.100 ± 0.05 mm	Ø 1.080 ± 0.05 mm	-	-
New York City class (press-fit)	-	-	-	Ø 1.450 ± 0.05 mm	-
Atlanta class (press-fit)	Ø 3,150 ± 0,025 mm	-	-	-	Please refer to chart on page 164
Las Vegas class (THT)	-	-	-	Ø 1.800 ± 0.05 mm	-
Dallas class (THT)	-	-	-	Ø 1.450 ± 0.05 mm	-
Miami class (THT)	-	-	-	Ø 1.20 ± 0.05 mm	-

NOTE

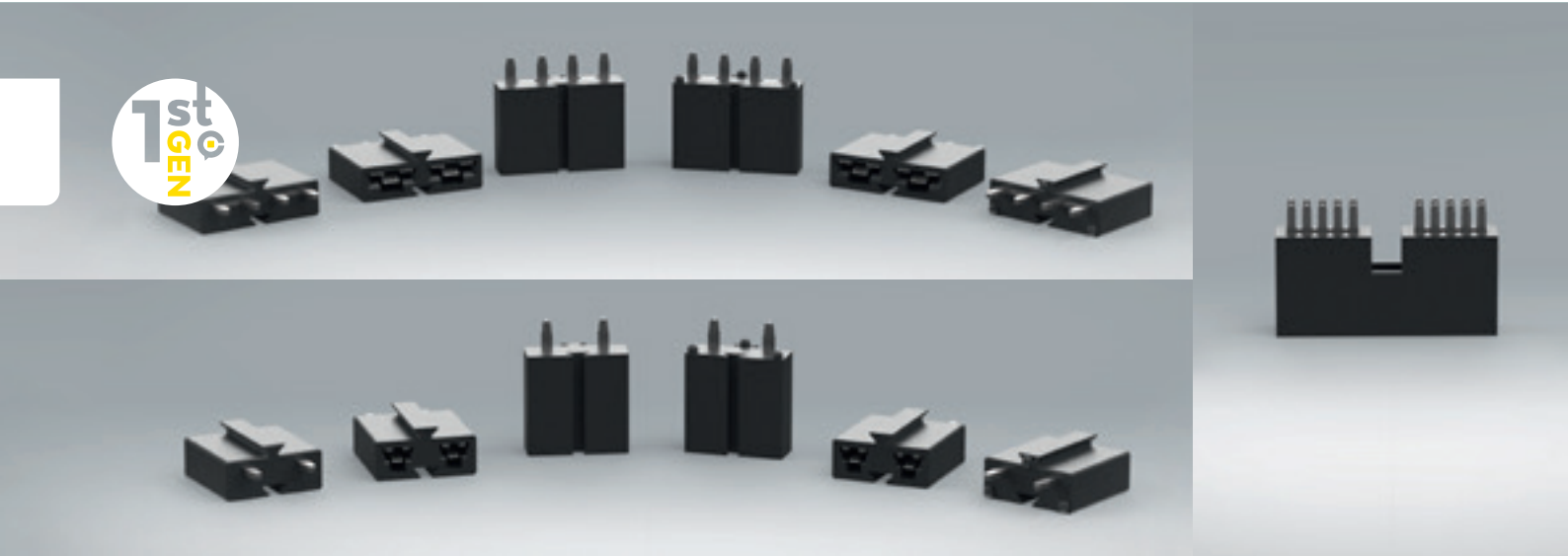
In order to ensure the complete function of the press-fit technology, it is essential that the drilling and end diameter specifications given on this and the previous double page are adhered to by the PCB manufacturer.





FUSE HOLDER

MINI, ATO, MAXI IN PRESS-FIT AND SOLDERING TECHNOLOGY



PRODUCT SPECIFICATION

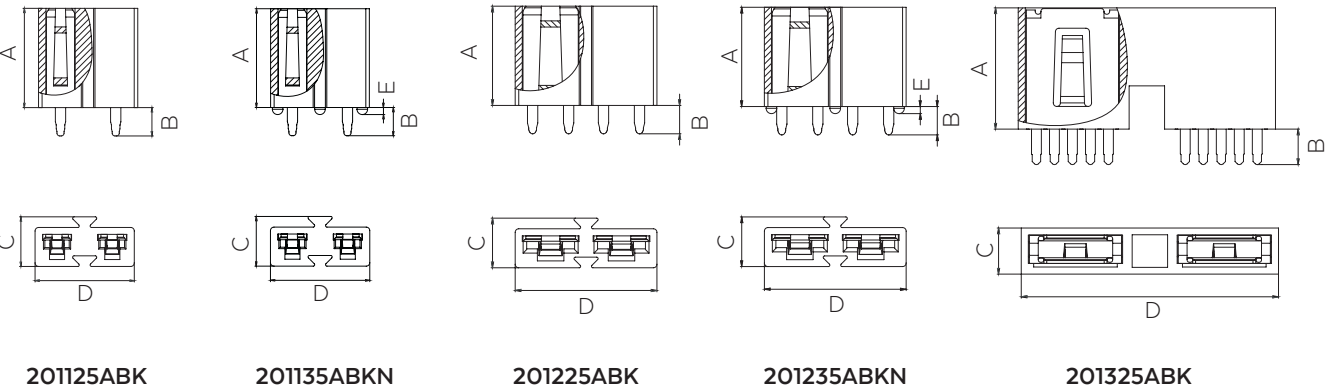
- Fuse holder for all common fuses in Mini, ATO and Maxi design
- For voltage classes 12 Volt and 24 Volt
- Maximum current value: approx. 40 A (depending on layout and PCB design)
- Highest reliability under harsh environmental conditions (temperature changes, strong vibrations, etc.)
- In proven flexible press-fit technology (press-fit tools available on request)



COLOR VARIANTS

Color	Part Number
● Black	20121XABK

SCALE DRAWINGS



RATING

								Part number
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201125ABK
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201135ABKN
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201225ABK
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201235ABKN
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201325ABK

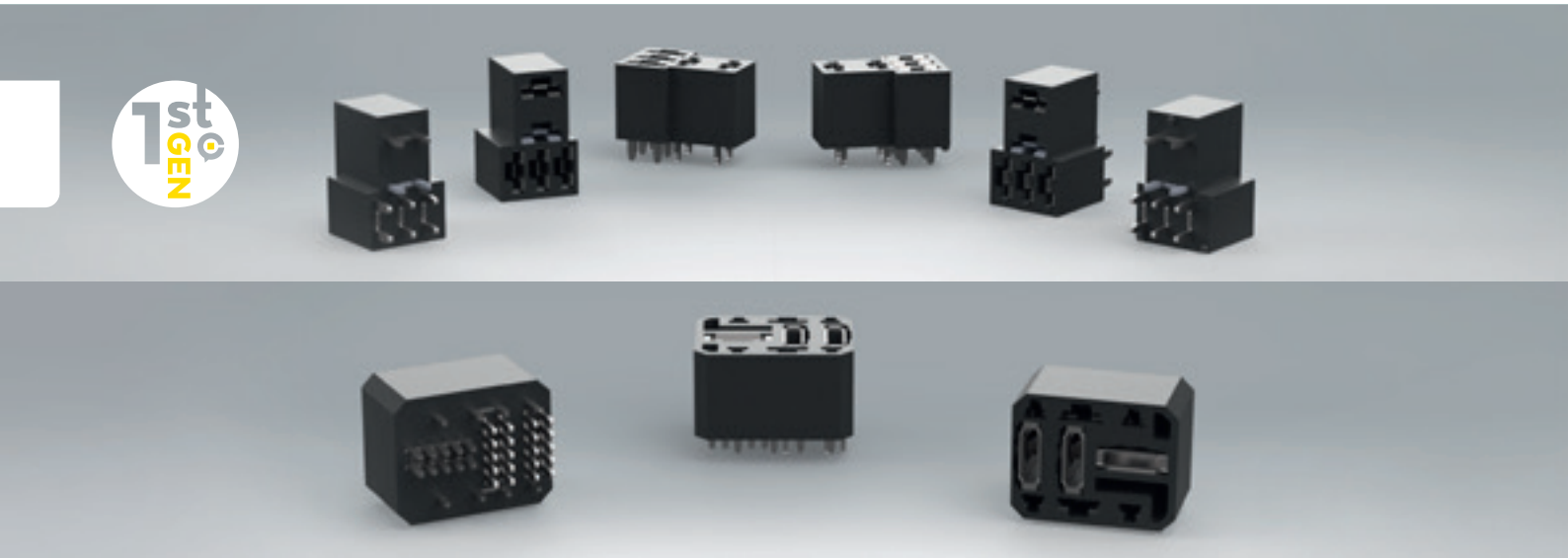
TECHNICAL DATA

A	B	C	D	E	Dimensions	Processing	Part number
14	4	7	14		Mini	Press-Fit or THT	201125ABK
14	4	7	14	1	Mini	Soldering*	201135ABKN
14	4	7	20		ATO	Press-Fit or THT	201225ABK
14	4	7	20	1	ATO	Soldering*	201235ABKN
17,1	5	6.5	36.3		Maxi	Press-Fit or THT	201325ABK

Measurements A - E in mm
Soldering*: This version contains dimples (flux, etc.)



RELAY SOCKETS
MICRO, PRESS-FIT & SOLDERING TECHNOLOGY,
MAXI IN PRESS-FIT TECHNOLOGY



PRODUCT SPECIFICATION

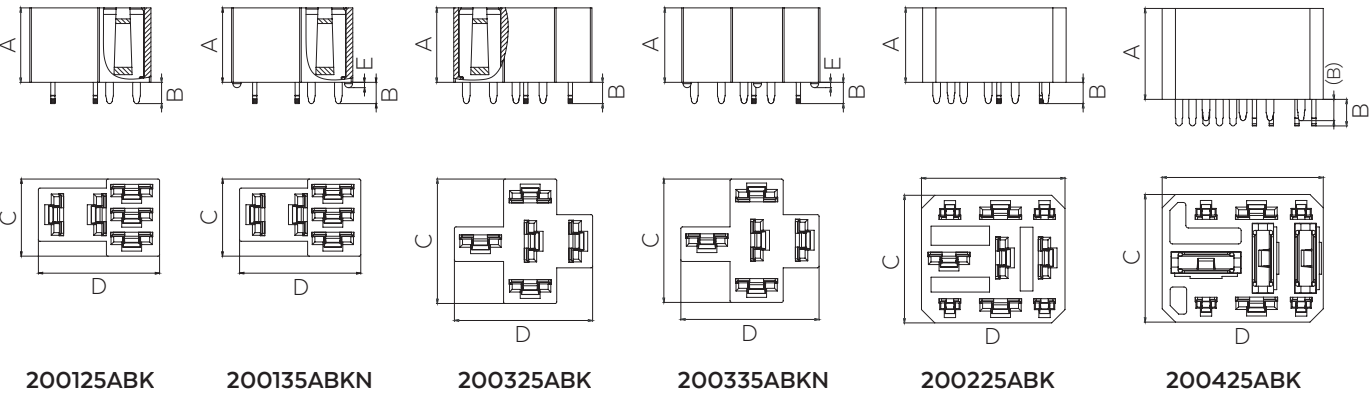
- Relay socket for all common relays in Micro & Maxi design
- For voltage classes 12 Volt and 24 Volt
- Maximum current value: approx. 30 A (depending on layout and PCB design)
- Highest reliability under harsh environmental conditions (temperature changes, strong vibrations, etc.)
- In proven flexible press-fit technology (press-fit tools available on request)



COLOR VARIANTS

Color	Part Number
● Black	2001XXABK

SCALE DRAWINGS



RATING

								Part number
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	200125ABK
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	200135ABKN
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	200225ABK
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	200325ABK
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	200335ABKN
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	200425ABK

TECHNICAL DATA

A	B	C	D	E	Dimensions	Processing	Part number
14	4	14.5	22.8		Micro	Press-Fit or THT	200125ABK
14	4	14.5	22.8	1	Micro	Soldering*	200135ABKN
14	4	23.4	26		Mini (5-pin)	Press-Fit or THT	200325ABK
14	3	23.2	26	1	Mini (5-pin)	Soldering*	200335ABKN
14	4	27	24		Mini (9-pin)	Press-Fit or THT	200225ABK
17,1	5 (und 4)	30.3	24		Maxi	Press-Fit or THT	200425ABK

Measurements A - E in mm
Soldering*: This version contains dimples (flux, etc.)



FUSE AND DIODE HOLDERS
ATO, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse and diode holders for all commercial mini fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

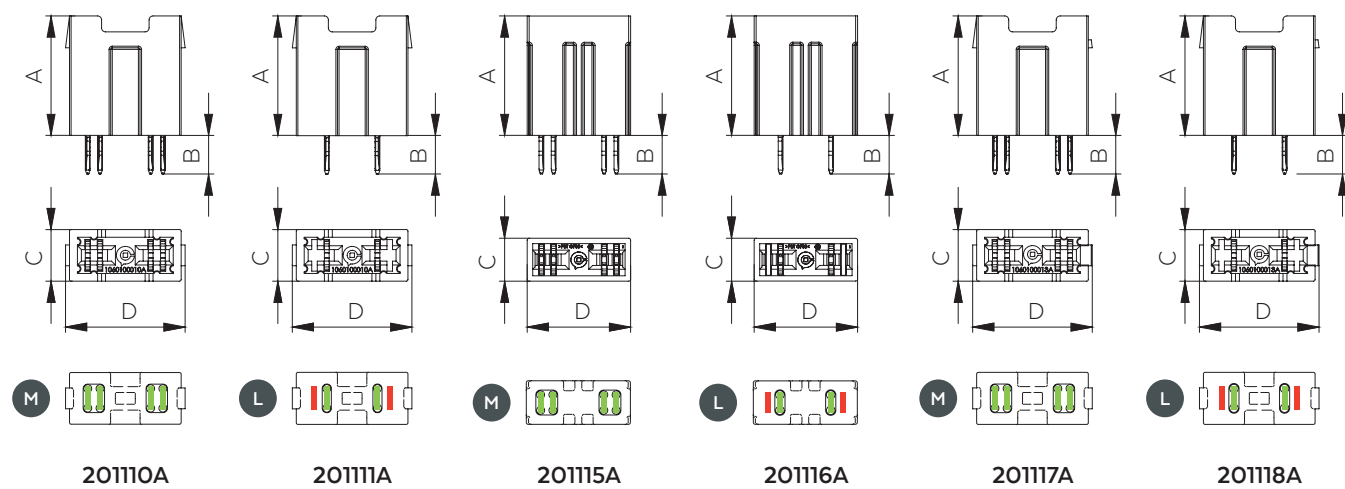
COLOR VARIANTS

Color	Part number
● Black	20111XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201110A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201111A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201115A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201116A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201117A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201118A

TECHNICAL DATA

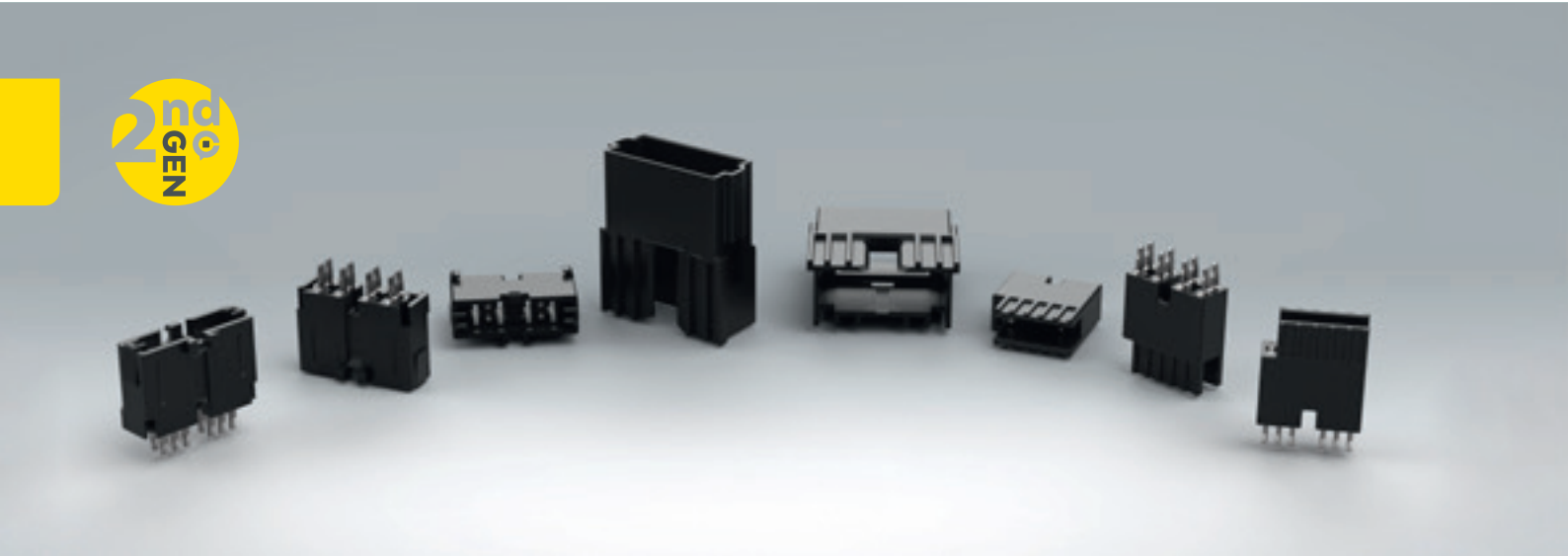
A	B	C	D	Dimensions	Assembly	Part number
15	4.85	6.7	15.1	Mini	M (medium)	201110A
15	4.85	6.7	15.1	Mini	L (light)	201111A
15	4.85	5.6	13.1	Mini	M (medium)	201115A
15	4.85	5.6	13.1	Mini	L (light)	201116A
15	4.85	6.7	15.1	Mini (diode holder)	M (medium)	201117A
15	4.85	6.7	15.1	Mini (diode holder)	L (light)	201118A

Measurements A - D in mm



FUSE AND DIODE HOLDERS

ATO, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial ATO fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

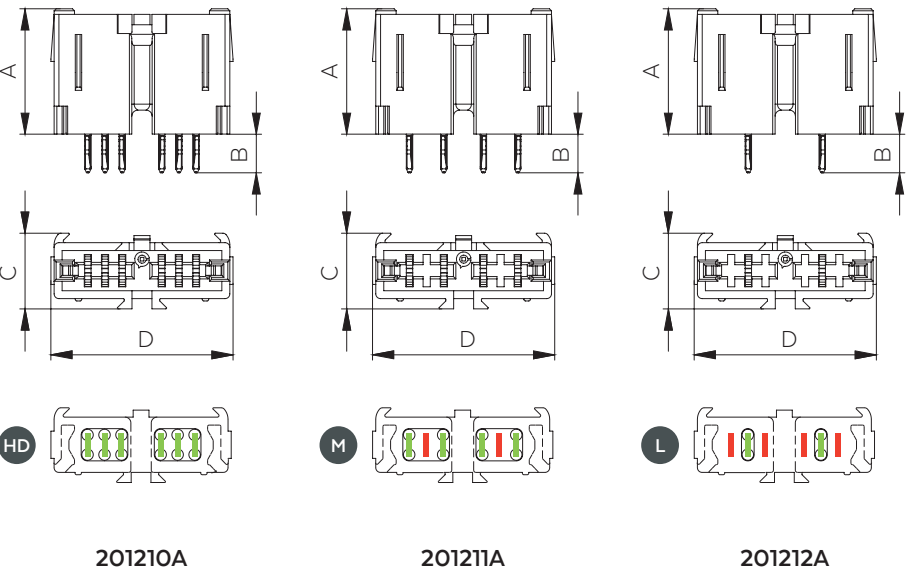
COLOR VARIANTS

Color	Part number
● Black	20121XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

⚡	🔧	⚡	💧	🔧	📏	🔧	🔧	🔧	Part number
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201210A
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201211A
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201212A

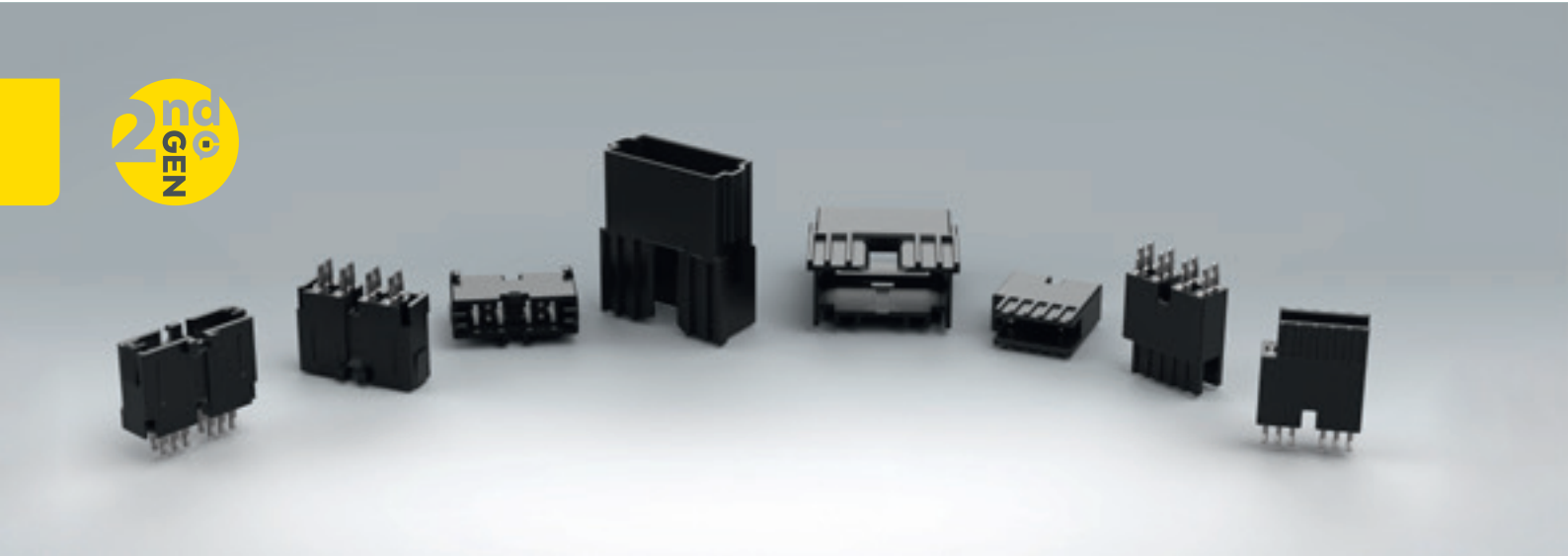
TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
15.7	4.85	9.6	22.8	ATO	HD (high density)	201210A
15.7	4.85	9.6	22.8	ATO	M (medium)	201211A
15.7	4.85	9.6	22.8	ATO	L (light)	201212A

Measurements A - D in mm



FUSE AND DIODE HOLDERS
ATO, PRESS-FIT



PRODUCT SPECIFICATION

- Diode holders and attachments for all commercial ATO fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

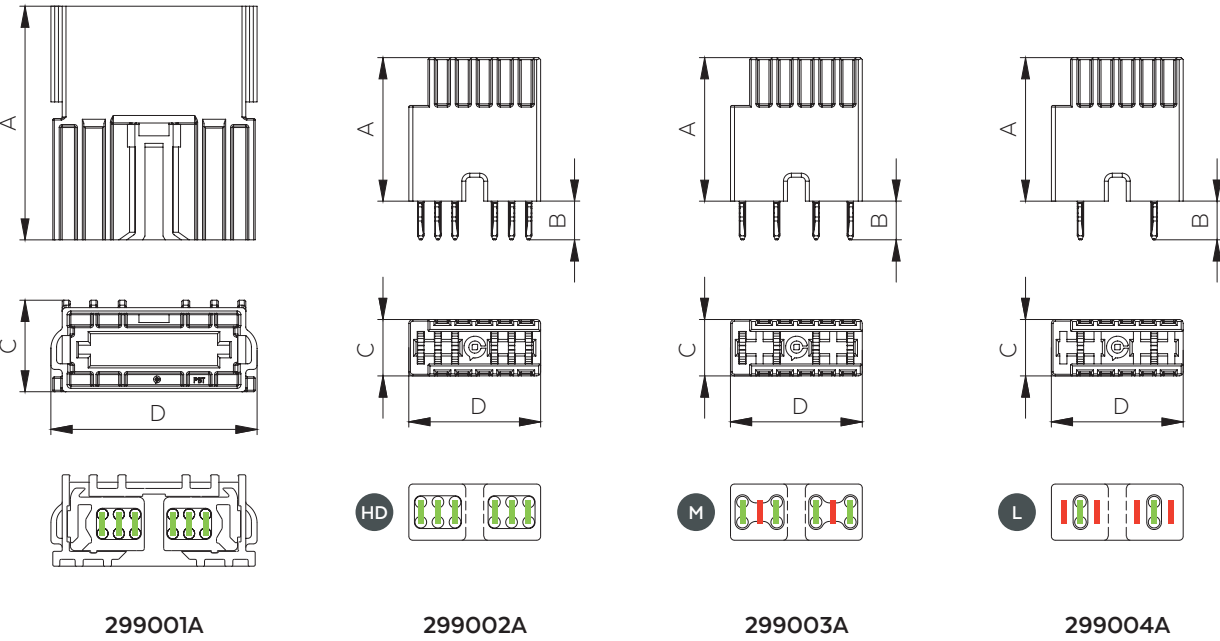
COLOR VARIANTS

Color	Part number
● Black	29900XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	299002A
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	299003A
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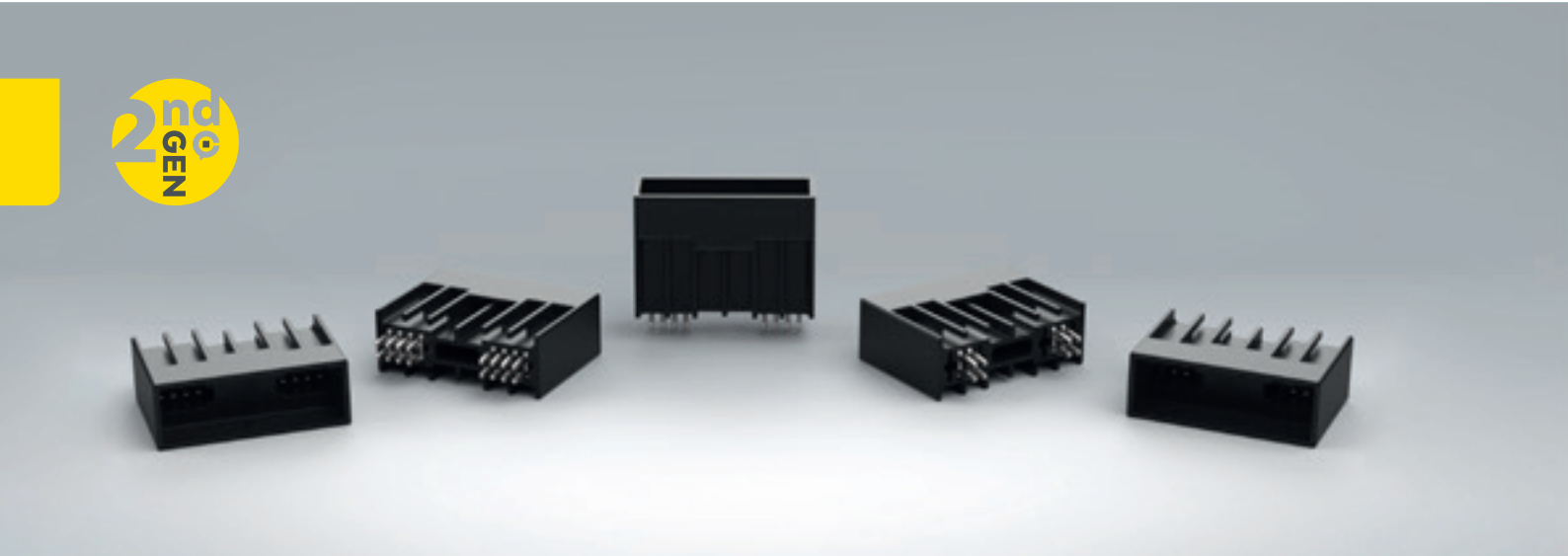
TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
31	–	12.3	27.4	ATO (ETA attachment)	–	299001A
18	4.85	7.1	16.55	ATO (diode holder)	HD (high density)	299002A
15.7	4.85	9.6	22.8	ATO (diode holder)	M (medium)	299003A
15.7	4.85	9.6	22.8	ATO (diode holder)	L (light)	299004A

Measurements A - D in mm



FUSE AND DIODE HOLDERS
MAXI, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial maxi fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 70 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

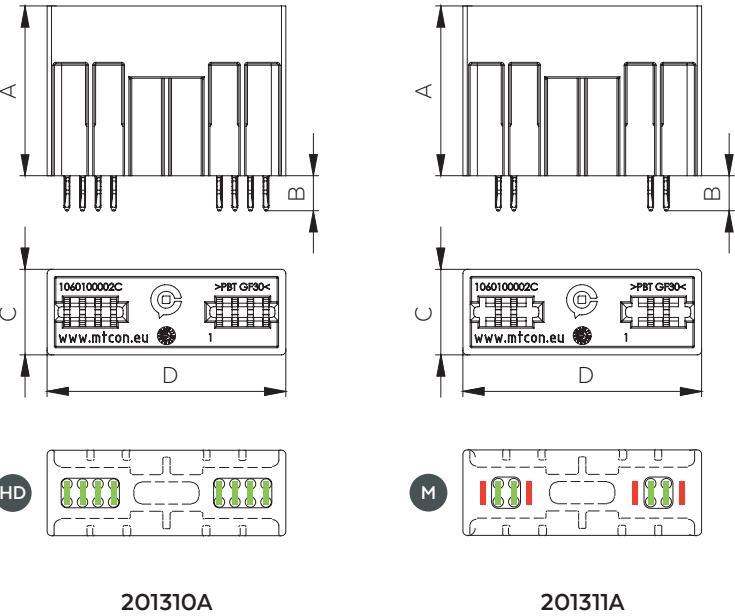
COLOR VARIANTS

Color	Part number
● Black	20131XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201310A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201311A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
23.5	4.85	12	33	Maxi	HD (high density)	201310A
23.5	4.85	12	33	Maxi	M (medium)	201311A

Measurements A - D in mm



FUSE AND DIODE HOLDERS

ATO, THT SOLDERING



PRODUCT SPECIFICATION

- Fuse holder for all commercial ATO fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- For THT wave soldering

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-
VEHICLES

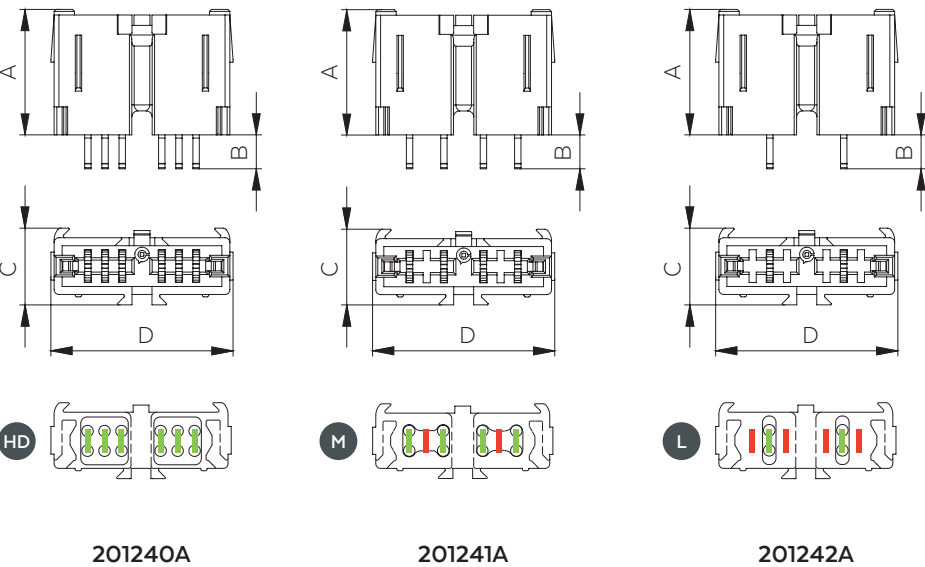
COLOR VARIANTS

Color	Part number
● Black	201241ABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

⚡	🔥	⚡	💧	🔧	📦	🔗	💰	Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201240A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201241A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201242A

TECHNISCHE DATEN

A	B	C	D	Dimensions	Assembly	Part number
15.7	4.25	9.6	22.8	ATO	HD (high density)	201240A
15.7	4.25	9.6	22.8	ATO	M (medium)	201241A
15.7	4.25	9.6	22.8	ATO	L (light)	201242A

Measurements A - D in mm



FUSE HOLDER ACCESSORIES
FASTON, PRESS-FIT



PRODUCT SPECIFICATION

- Pin sockets for all commercial fuses or applications with matching latch plates or blade contacts
- For voltages of 12 V and 24 V
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

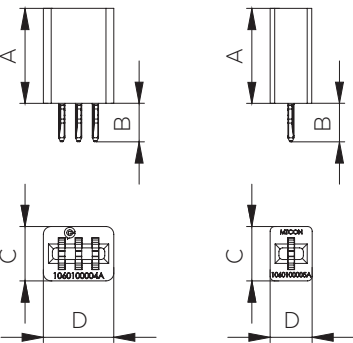
COLOR VARIANTS

Color	Part number
● Black	29905XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



HD

299050A

L

299051A

RATING

								Part number
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	299050A
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	299051A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
12	4.85	7	9	3-pin (female)	HD (high density)	299050A
12	4.85	7	5.5	1-pin (female)	L (light)	299051A

Measurements A - D in mm



RELAY SOCKETS
MICRO, PRESS-FIT



PRODUCT SPECIFICATION

- Relay sockets for all commercial micro relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

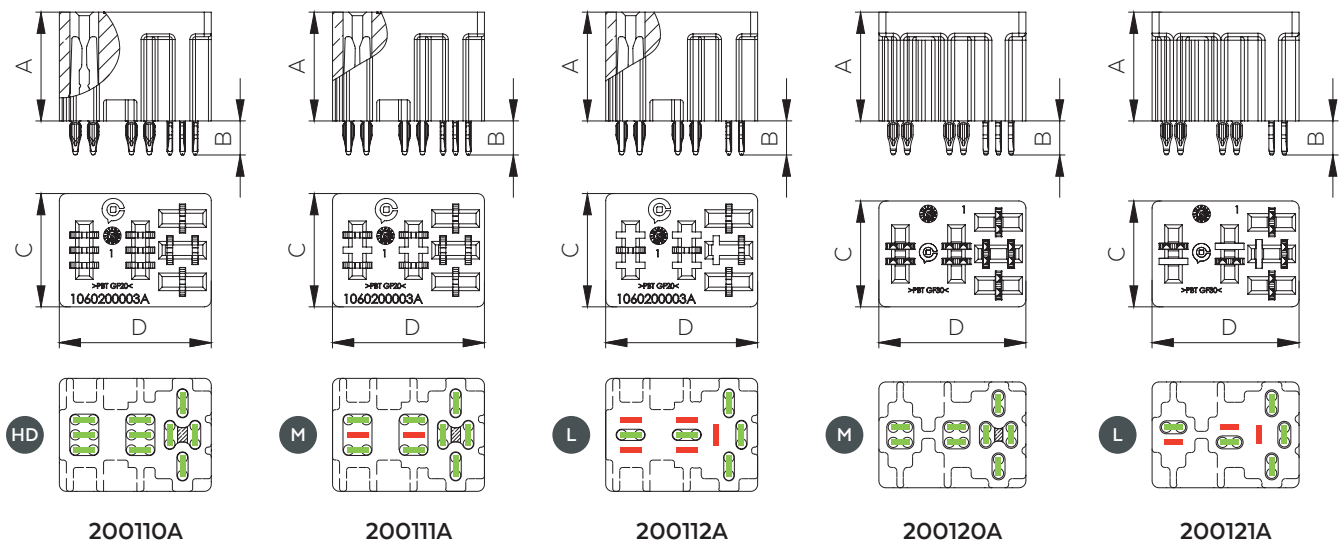
COLOR VARIANTS

Color	Part number
● Black	2001XXABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

⚡	🔄	⚡	💧	🔧	📦	🔗	🕒	Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200110A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200111A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200112A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200120A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200121A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
15.5	4.85	16.1	21.65	Micro	HD (high density)	200110A
15.5	4.85	16.1	21.65	Micro	M (medium)	200111A
15.5	4.85	16.1	21.65	Micro	L (light)	200112A
15.5	4.85	15.1	20.95	Micro	M (medium)	200120A
15.5	4.85	15.1	20.95	Micro	L (light)	200121A

Measurements A - D in mm



RELAY SOCKETS
MINI 9-PIN, PRESS-FIT



PRODUCT SPECIFICATION

- 9-pin relay sockets for all commercial mini relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

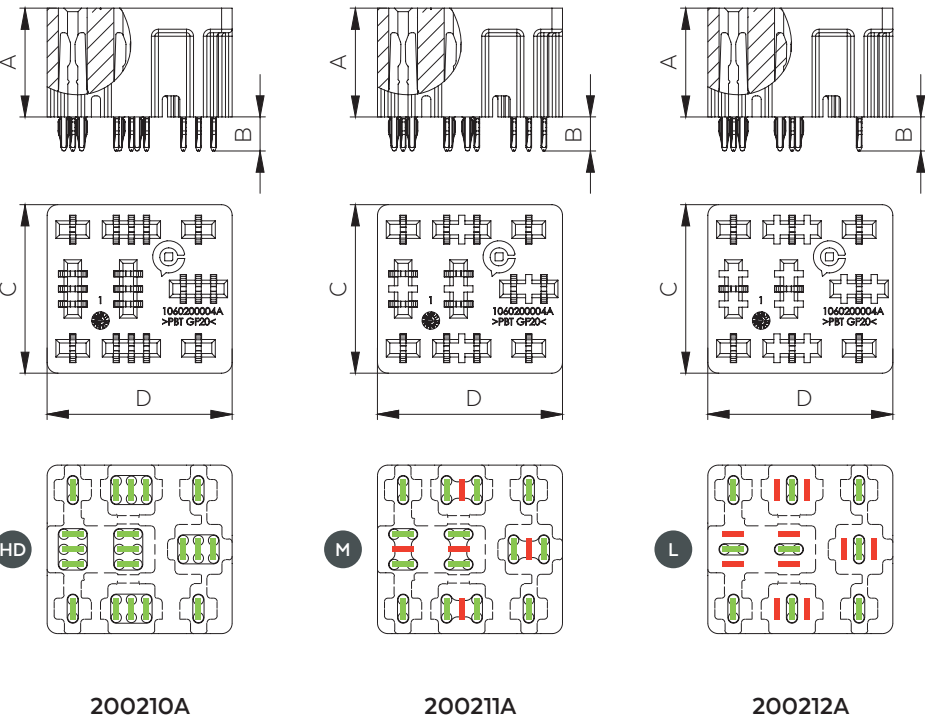
COLOR VARIANTS

Color	Part number
● Black	20021XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200210A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200211A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200212A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
15.5	4.85	24	26.35	Mini (9-pin)	HD (high density)	200210A
15.5	4.85	24	26.35	Mini (9-pin)	M (medium)	200211A
15.5	4.85	24	26.35	Mini (9-pin)	L (light)	200212A

Measurements A - D in mm



RELAY SOCKETS
MINI 5-PIN, PRESS-FIT



PRODUCT SPECIFICATION

- 5-pin relay sockets for all commercial mini relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

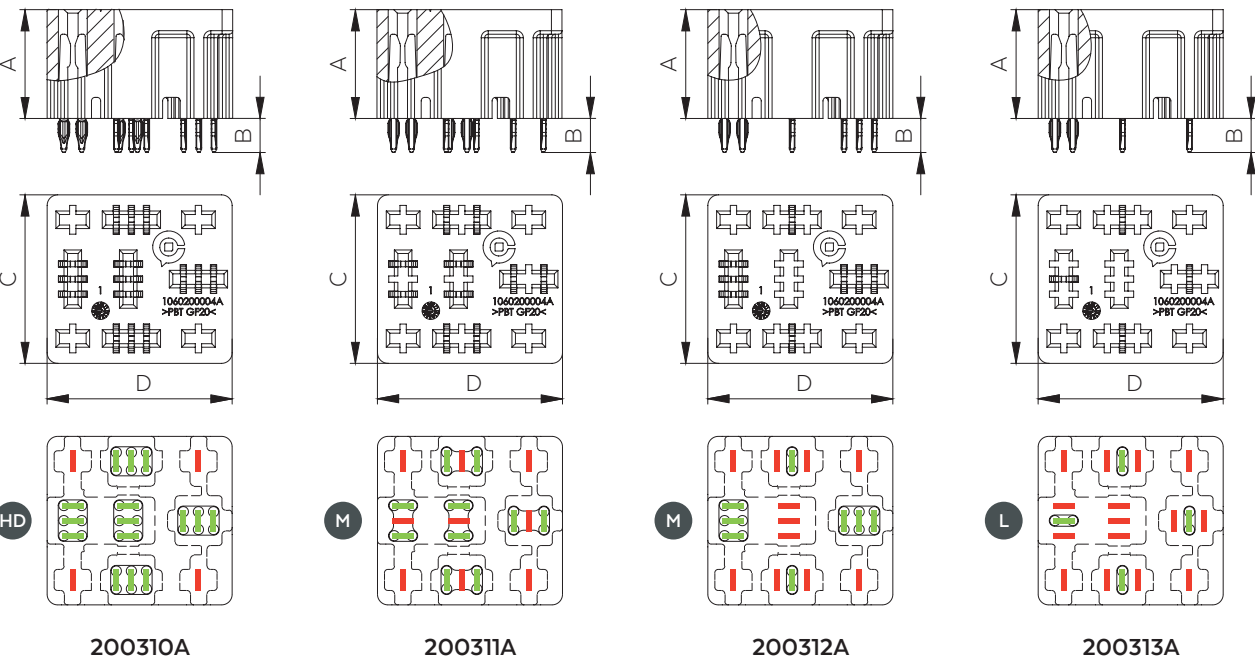
COLOR VARIANTS

Color	Part number
● Black	20031XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

									Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200310A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200311A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200312A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200313A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
15.5	4.85	24	26.35	Mini (5-pin)	HD (high density)	200310A
15.5	4.85	24	26.35	Mini (5-pin)	M (medium)	200311A
15.5	4.85	24	26.35	Mini (5-pin)	M (medium)	200312A
15.5	4.85	24	26.35	Mini (5-pin)	L (light)	200313A

Measurements A - D in mm



RELAY SOCKETS
MAXI, PRESS-FIT



PRODUCT SPECIFICATION

- Relay sockets for all commercial maxi relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 70 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

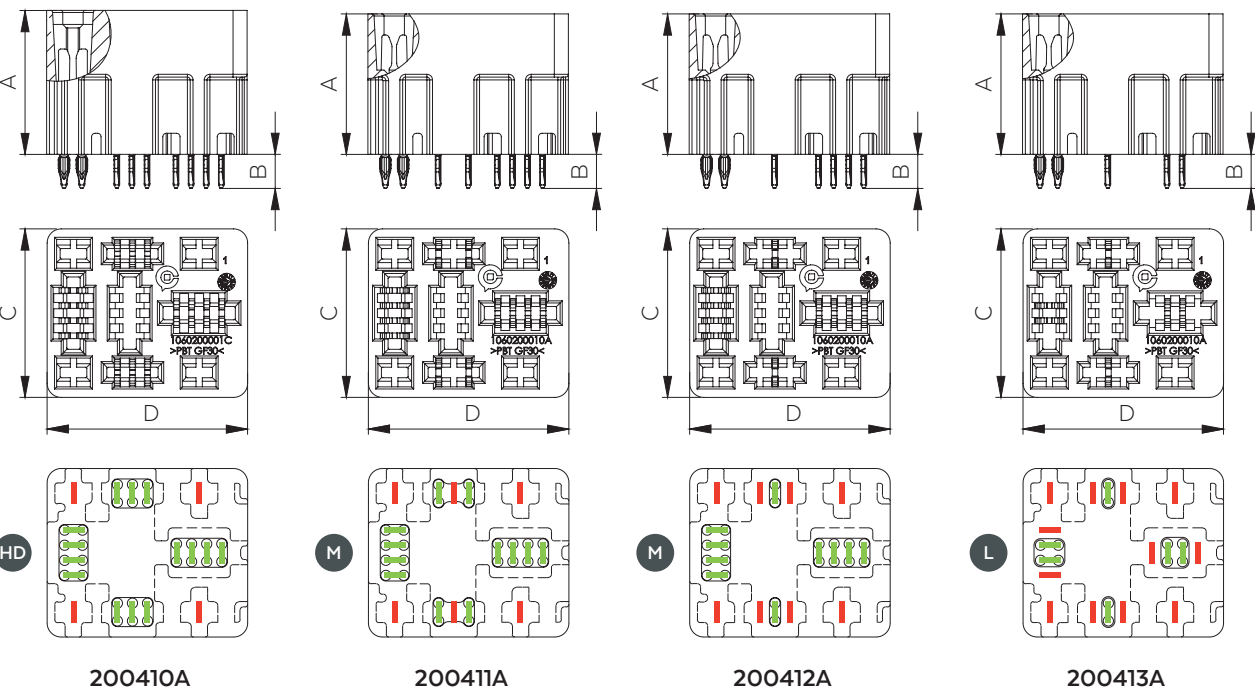
COLOR VARIANTS

Color	Part number
● Black	20041XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200410A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200411A
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● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200413A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
20.5	4.85	24	28.55	Maxi	HD (high density)	200410A
20	4.85	24	28.55	Maxi	M (medium)	200411A
20	4.85	24	28.55	Maxi	M (medium)	200412A
20	4.85	24	28.55	Maxi	L (light)	200413A

Measurements A - D in mm



RELAY SOCKETS
XL, PRESS-FIT



PRODUCT SPECIFICATION

- XL relay socket for many commercial power relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

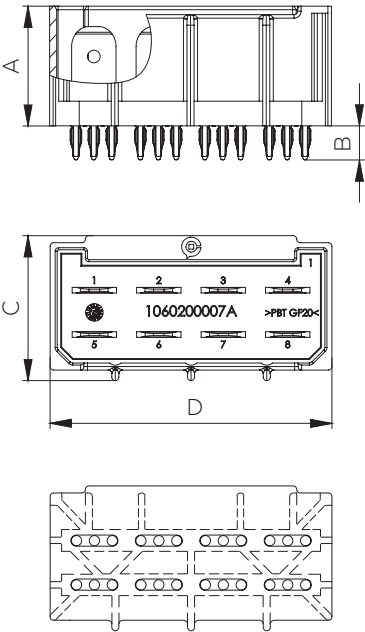
COLOR VARIANTS

Color	Part number
● Black	200511ABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



20051XA

TECHNICAL DATA

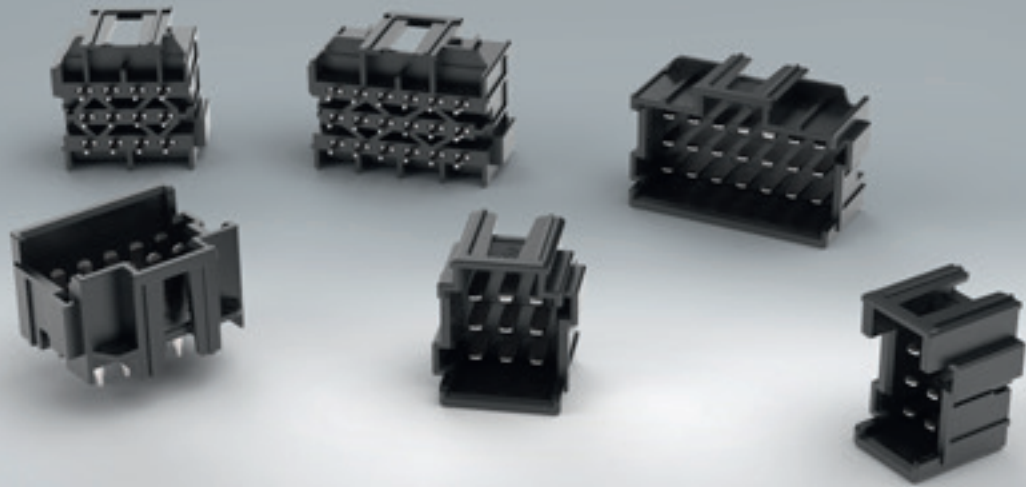
A	B	C	D	Dimensions	Coating	Part number
17	4.85	20.6	40	XL	Tin	200511A
17	4.85	20.6	40	XL	Silver	200512A

Measurements A - D in mm



PCB CONNECTORS

JPT, 3-ROWED, PRESS-FIT



PRODUCT SPECIFICATION

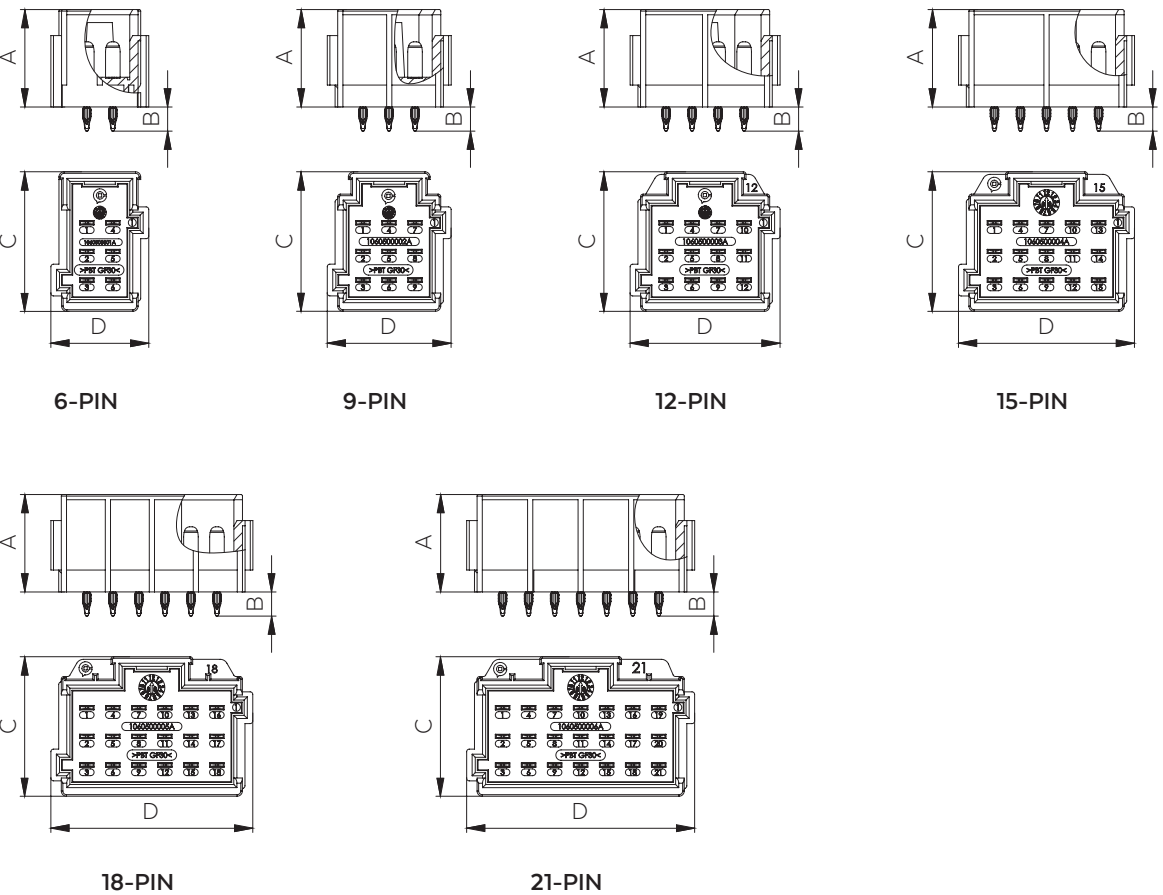
- 3-rowed PCB connector series in the number of poles: 6 – 9 – 12 – 15 – 18 – 21
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 15 A
(depending on number of poles, layout and circuit board version)
- 2.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)



COLOR VARIANTS

Color	Part number
● Black	400X10ABK
● Blue	400X10ABU
● Grey	400X10AGY
● Yellow	400X10AYE
● Green	400X10AGN
● Pink	400X10APK
● Brown	400X10ABN

SCALE DRAWINGS



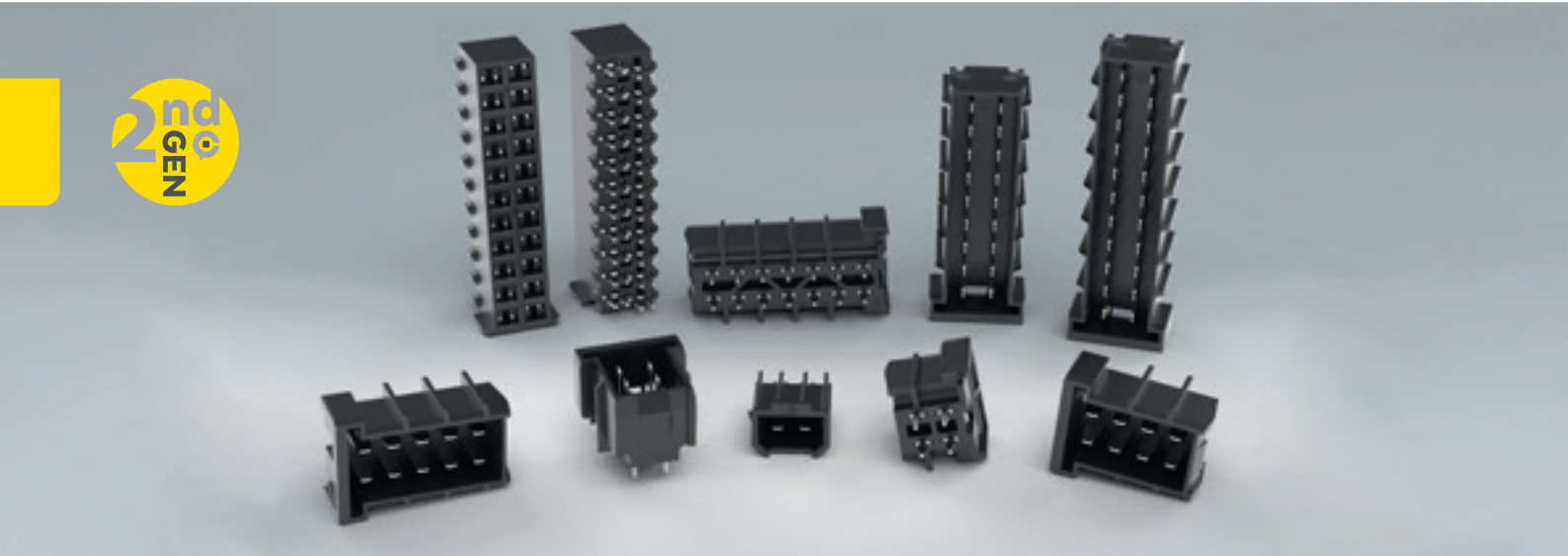
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
18.7	4.65	26.8	18.8	6-pin	400110A
18.7	4.65	26.8	23.8	9-pin	400210A
18.7	4.65	26.8	28.8	12-pin	400310A
18.7	4.65	26.8	33.8	15-pin	400410A
18.7	4.65	26.8	38.8	18-pin	400510A
18.7	4.65	26.8	43.8	21-pin	400610A

Measurements A – D in mm



PCB CONNECTORS
JPT, 2-ROWED, PRESS-FIT



PRODUCT SPECIFICATION

- 2-rowed PCB connector series in the number of poles: 2 - 4 - 6 - 8 - 10 - 14 - 18 - 22
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 15 A
(depending on number of poles, layout and circuit board version)
- 2.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

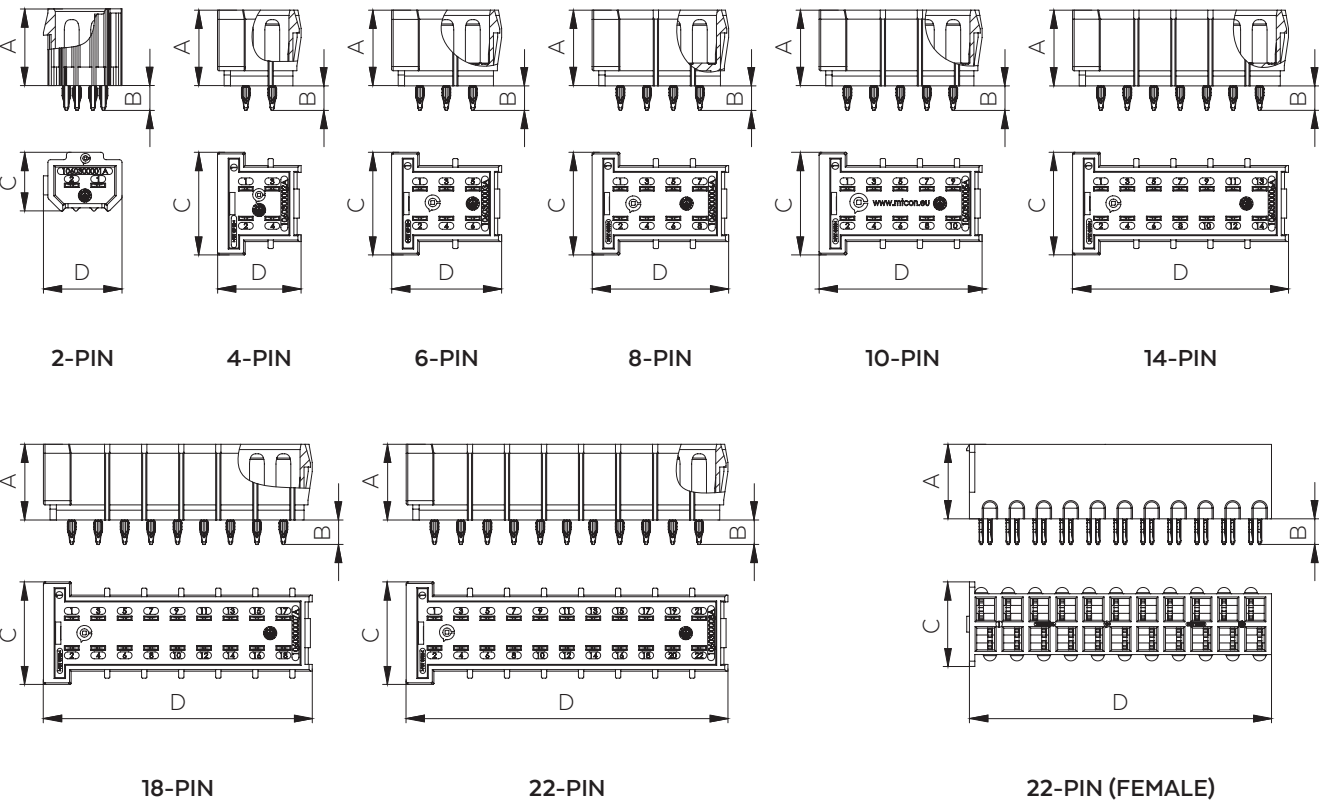
REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

COLOR VARIANTS

Color	Part number
● Black	40XX10ABK
● Green	405110AGN
● White	405110AWH

SCALE DRAWINGS



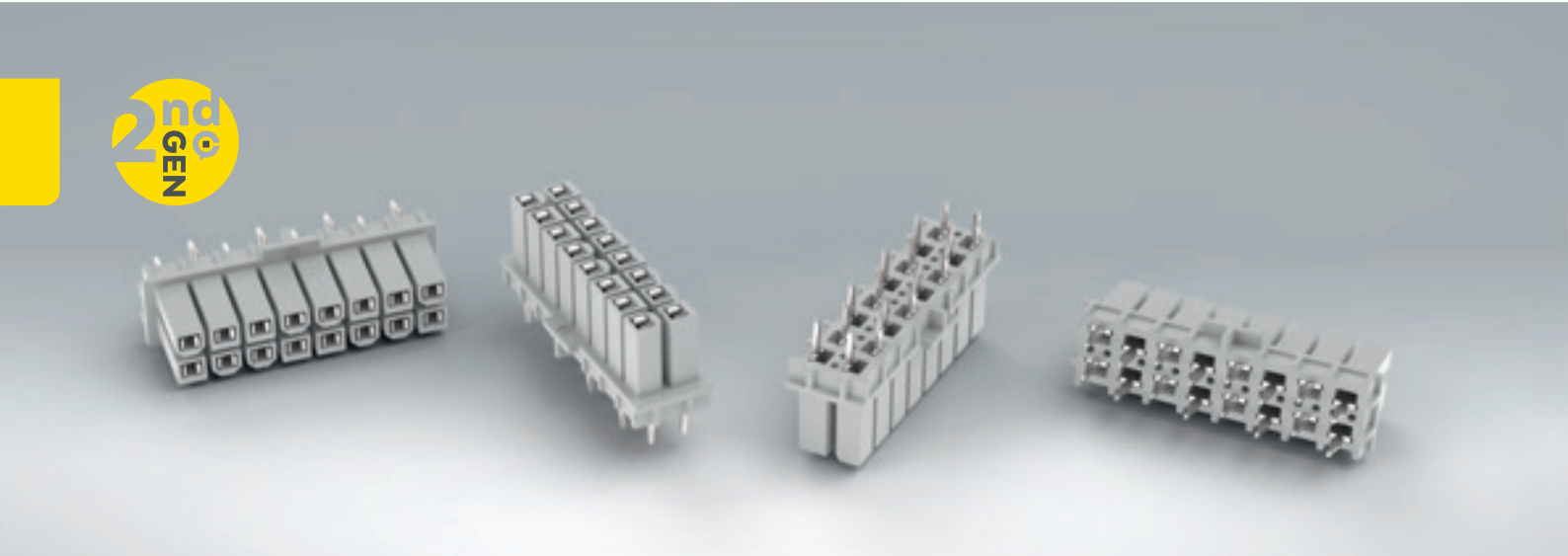
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
14.5	4.7	11.1	14.85	2-pin	405010A
14.3	4.65	19.38	15.8	4-pin	405110A
14.3	4.65	19.38	20.8	6-pin	405210A
14.3	4.65	19.38	25.8	8-pin	405310A
14.3	4.65	19.37	30.8	10-pin	405410A
14.3	4.65	19.37	40.8	14-pin	405510A
14.3	4.65	19.37	50.8	18-pin	405610A
14.3	4.65	19.37	60.8	22-pin	405710A
14	4.85	16	56.5	22-pin (female)	406710A

Measurements A - D in mm



PCB CONNECTORS
MINIFIT, PRESS-FIT



PRODUCT SPECIFICATION

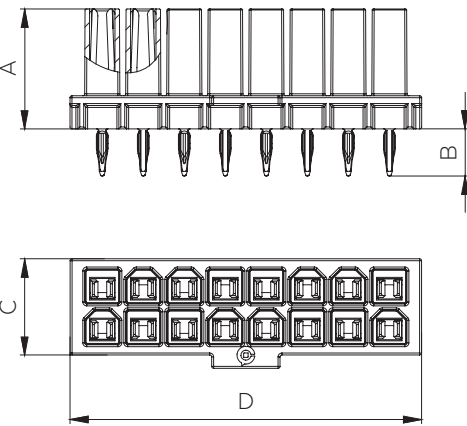
- Female PCB connector for 16-pin minifit connectors
- For voltages of 12 V and 24 V
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)



COLOR VARIANTS

Color	Part number
● White	408610AWH

SCALE DRAWINGS



16-PIN

TECHNICAL DATA

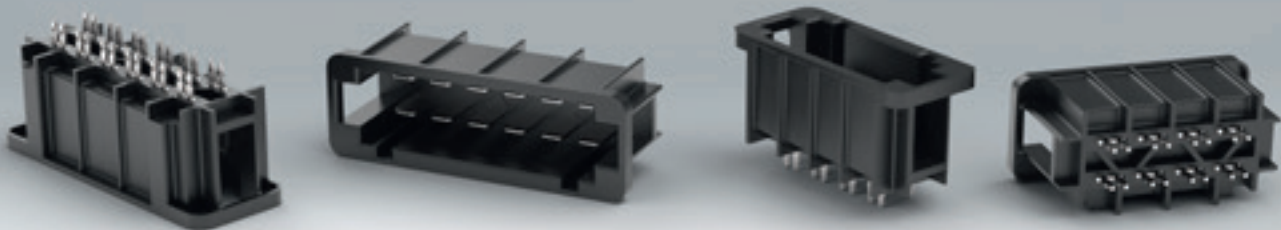
A	B	C	D	Dimensions	Part number
12.3	4.85	9.9	35.8	16-pin (female)	408610AWH

Measurements A - D in mm



PCB CONNECTORS

G&H, PRESS-FIT



PRODUCT SPECIFICATION

- 2-rowed PCB connector series in the number of poles: 8 - 12
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A
(depending on number of poles, layout and circuit board version)
- 4.8 mm blade contact
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

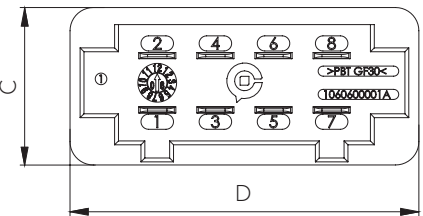
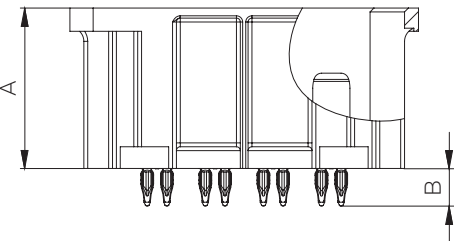
REACH
COMPLIANT

ELV
END-OF-LIFE-
VEHICLES

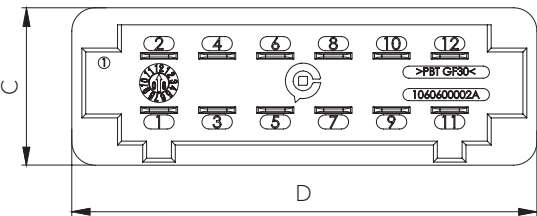
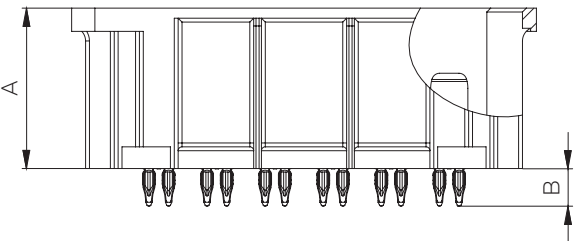
COLOR VARIANTS

Color	Part number
● Black	401X10ABK
● Blue	401X00ABU
● White	401X00AWH
● Red	401X00ARD

SCALE DRAWINGS



8-PIN



12-PIN

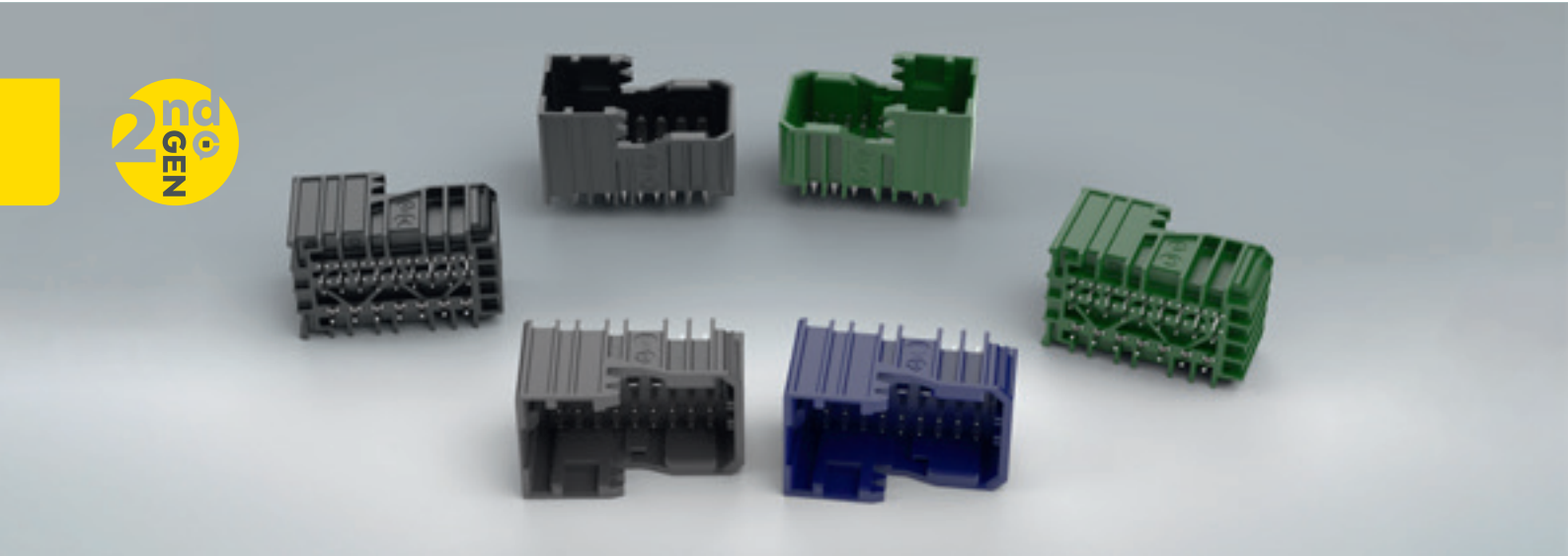
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
20.7	4.85	20.3	45	8-pin	401110A
20.7	4.85	20.3	60	12-pin	401210A

Measurements A - D in mm



PCB CONNECTORS
MCPIN 25-PIN, PRESS-FIT



PRODUCT SPECIFICATION

- 25-pin PCB connector series
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 3 A for 1.6 mm blades and approx. 15 A for 2.8 mm blades (depending on number of poles, layout and circuit board version)
- 1.6 mm and 2.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

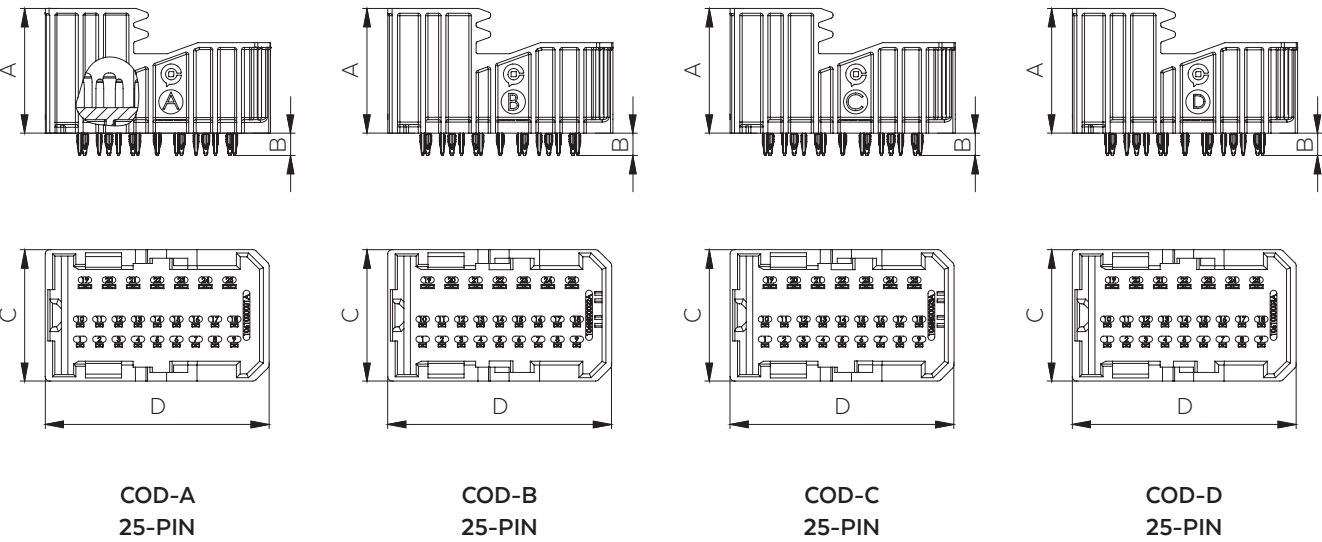
REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

COLOR VARIANTS

Color	Part number
● Black	403110ABKA
● Grey	403110AGYB
● Blue	403110ABUC
● Green	403110AGND

SCALE DRAWINGS



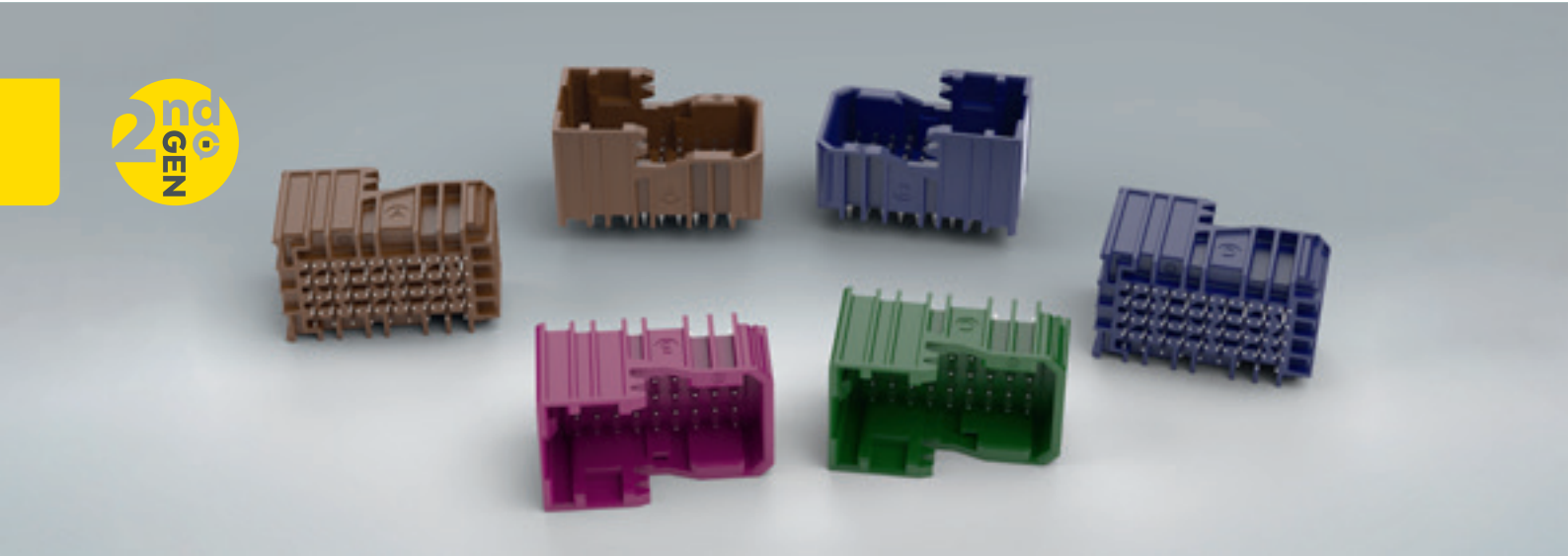
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
25.9	4.65	27.5	46.5	25-pin	403110ABKA
25.9	4.65	27.5	46.5	25-pin	403110AGYB
25.9	4.65	27.5	46.5	25-pin	403110ABUC
25.9	4.65	27.5	46.5	25-pin	403110AGND

Measurements A - D in mm



PCB CONNECTORS
MCPIN 36-PIN, PRESS-FIT



PRODUCT SPECIFICATION

- 36-pin PCB connector series
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 3 A for 1.6 mm blades
(depending on number of poles, layout and circuit board version)
- 1.6 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

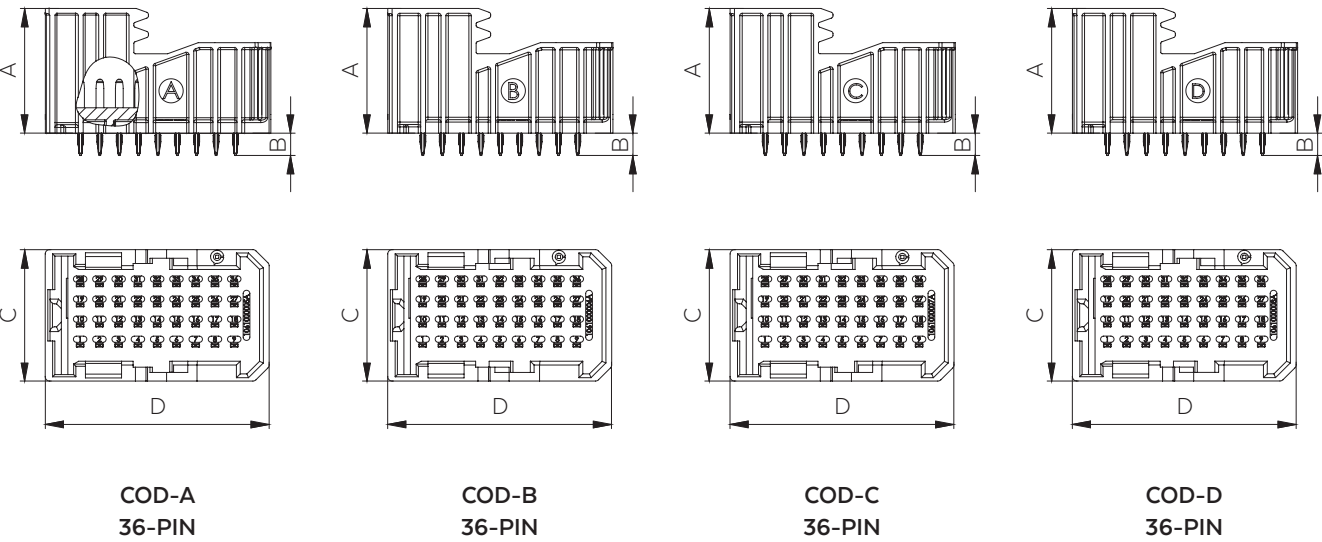
REACH
COMPLIANT

ELV
END-OF-LIFE-
VEHICLES

COLOR VARIANTS

Color	Part number
Brown	403210ABNA
Violet	403210AVIB
Green	403210AGNC
Blue	403210ABUD

SCALE DRAWINGS



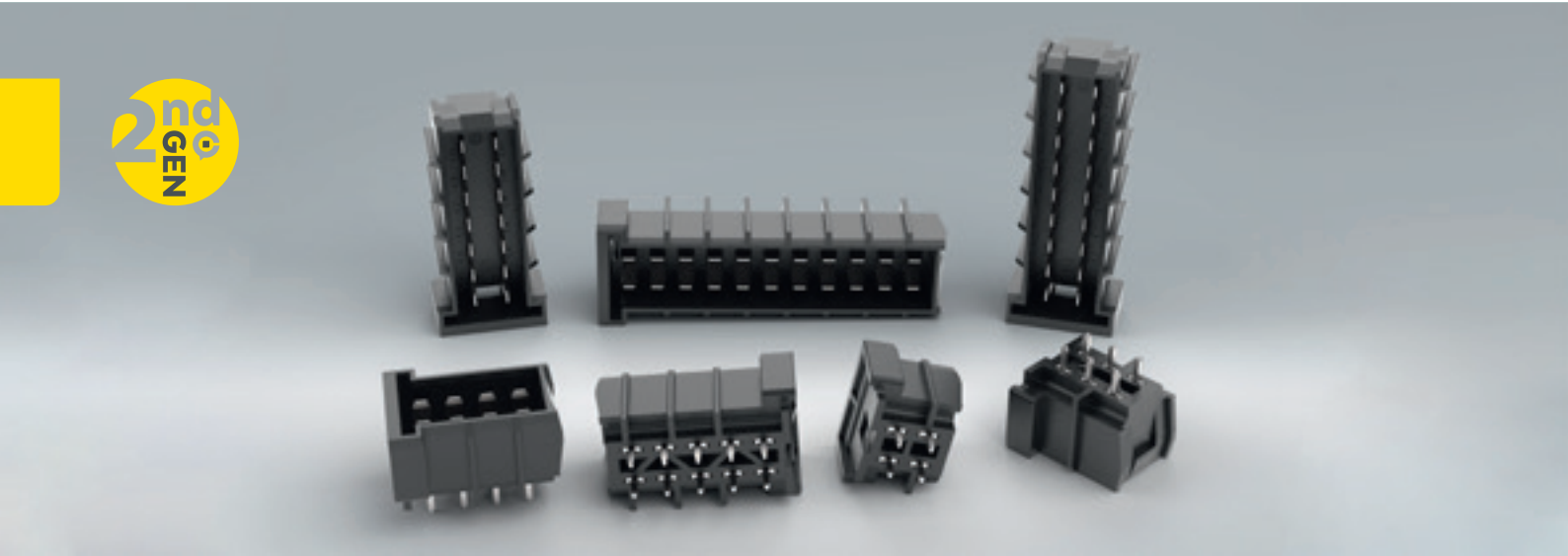
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
25.9	4.65	27.5	46.5	36-pin	403210ABNA
25.9	4.65	27.5	46.5	36-pin	403210AVIB
25.9	4.65	27.5	46.5	36-pin	403210AGNC
25.9	4.65	27.5	46.5	36-pin	403210ABUD

Measurements A - D in mm



PCB CONNECTORS
JPT, 2-ROWED, THT SOLDERING



PRODUCT SPECIFICATION

- 2-rowed PCB connector series in the number of poles: 4 - 6 - 8 - 10 - 14 - 18 - 22
- For voltages of 12 V and 24 V
- Maximum current value: approx. 15 A
(depending on number of poles, layout and circuit board version)
- 2.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- For THT wave soldering

RoHS
COMPLIANT

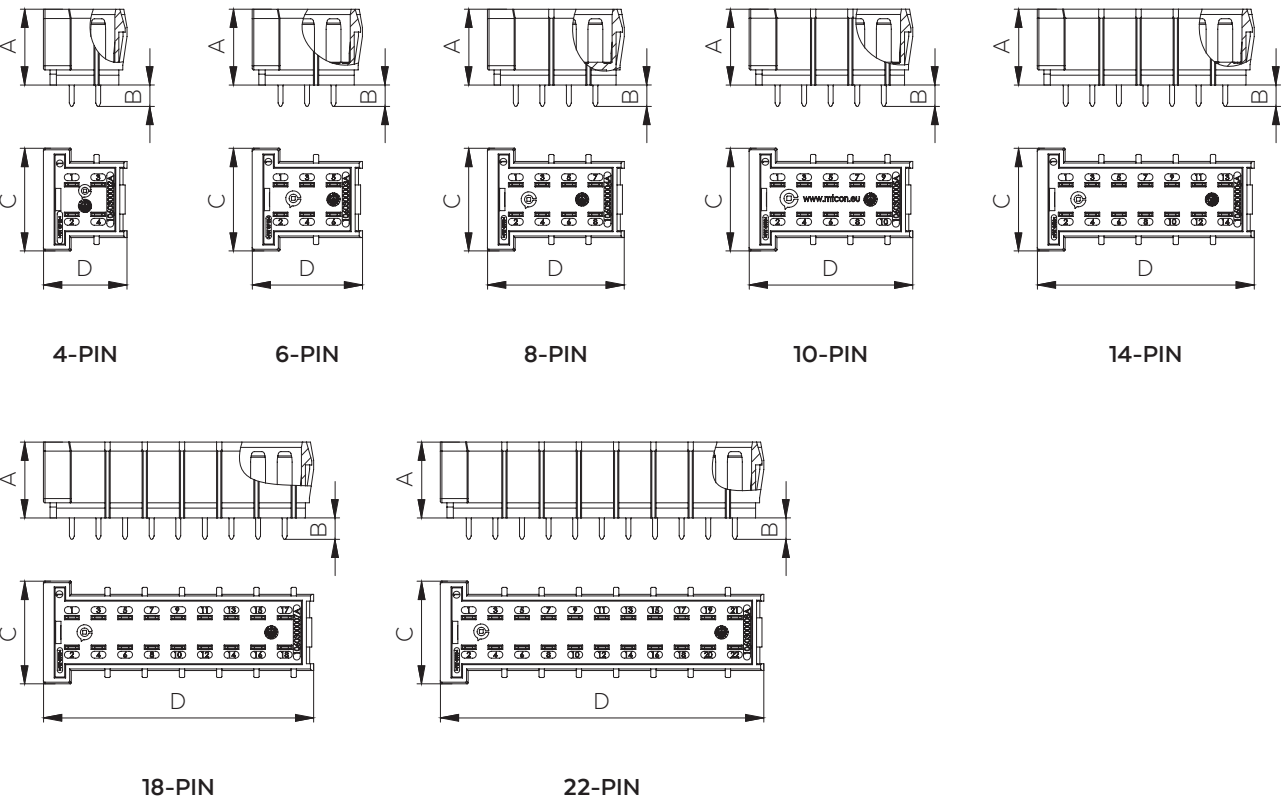
REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

COLOR VARIANTS

Color	Part number
● Black	405X31ABK
● Green	405131AGN
● White	405131AWH

SCALE DRAWINGS



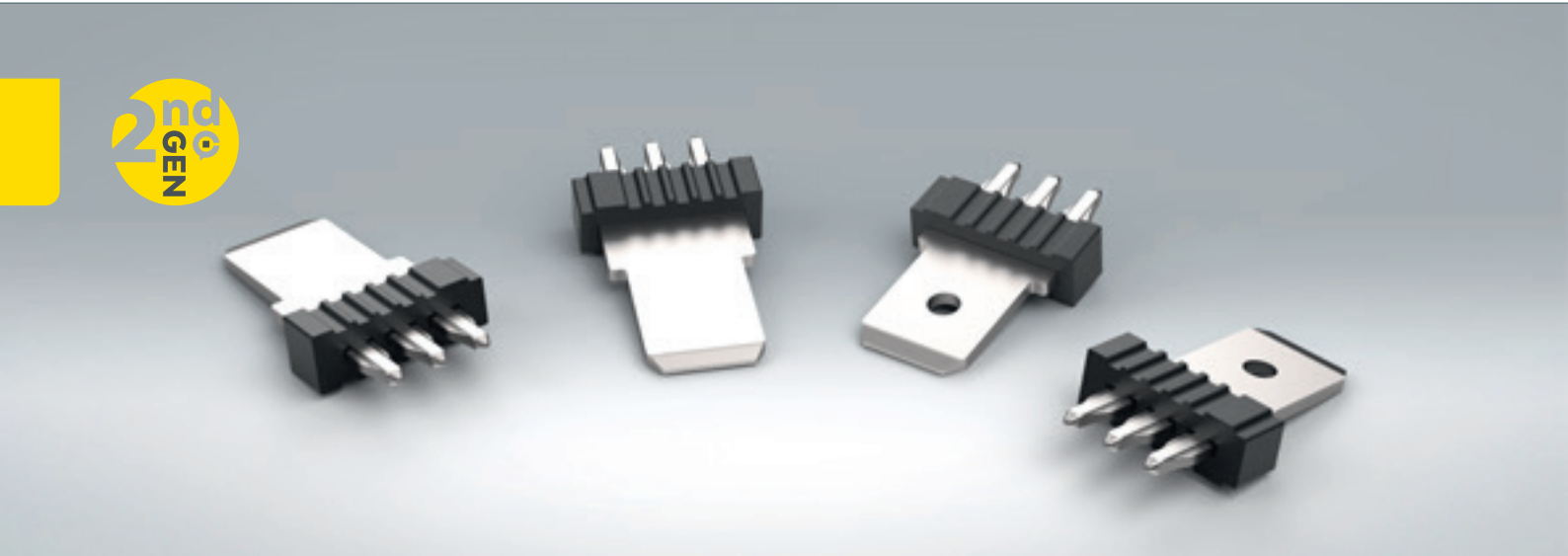
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
14.3	4.05	19.38	15.8	4-pin	405131A
14.3	4.05	19.38	20.8	6-pin	405231A
14.3	4.05	19.38	25.8	8-pin	405331A
14.3	4.05	19.37	30.8	10-pin	405431A
14.3	4.05	19.37	40.8	14-pin	405531A
14.3	4.05	19.37	50.8	18-pin	405631A
14.3	4.05	19.37	60.8	22-pin	405731A

Measurements A - D in mm



CONTACT ELEMENTS
PRESS-FIT IN MASSIVE PRESS-FIT ZONE



PRODUCT SPECIFICATION

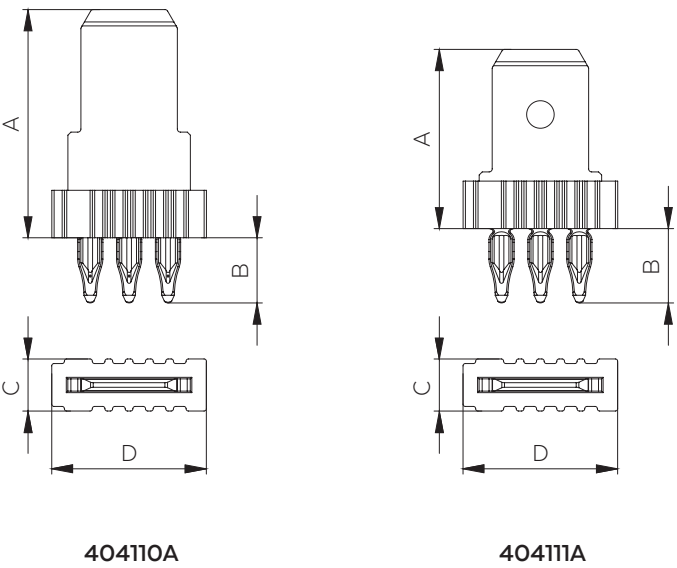
- In modern press-fit and soldering technology (THT)
- Standard components/catalog goods
- Customer specific designs possible regarding:
shape, size, material, surface and much more

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	Dimensions	Part number
14.9	4.25	3.4	10.1	6.3 (IFM)	404110A
11.7	4.85	3.4	10.1	6.3	404111A

Measurements A - D and dimensions in mm



FUSE HOLDERS

MINI, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial mini fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

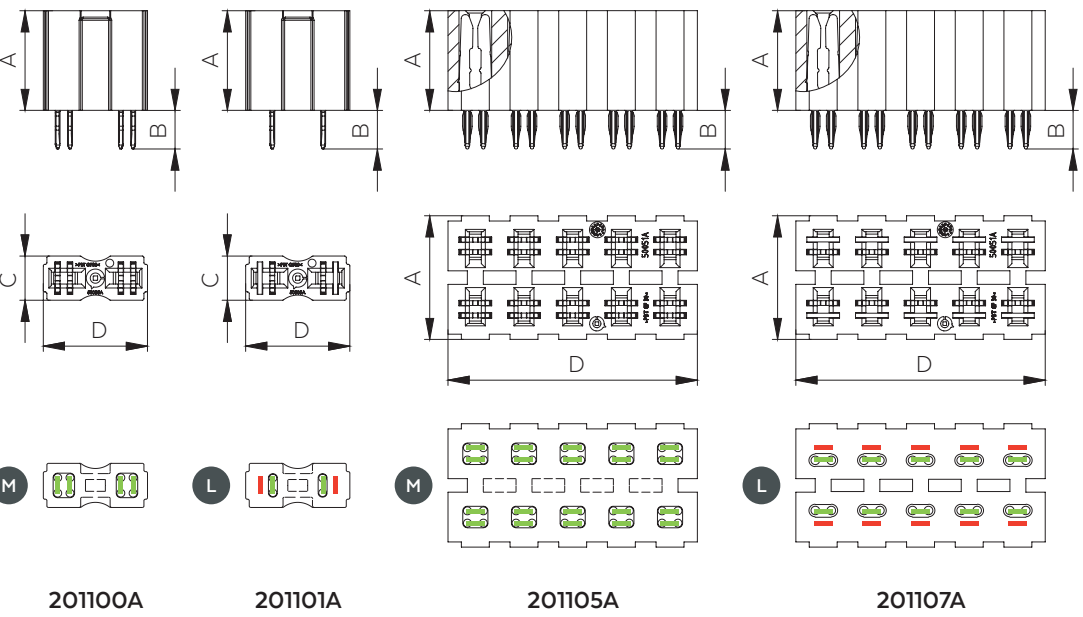
COLOR VARIANTS

Color	Part number
● Black	20110XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201100A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201101A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201105A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201107A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
12.5	4.85	5.6	13.1	Mini	M (medium)	201100A
12.5	4.85	5.6	13.1	Mini	L (light)	201101A
12.5	4.85	15.5	31.25	Mini (block of 5)	M (medium)	201105A
12.5	4.85	15.5	31.25	Mini (block of 5)	L (light)	201107A

Measurements A - D in mm



FUSE HOLDERS
MINI, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial mini fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

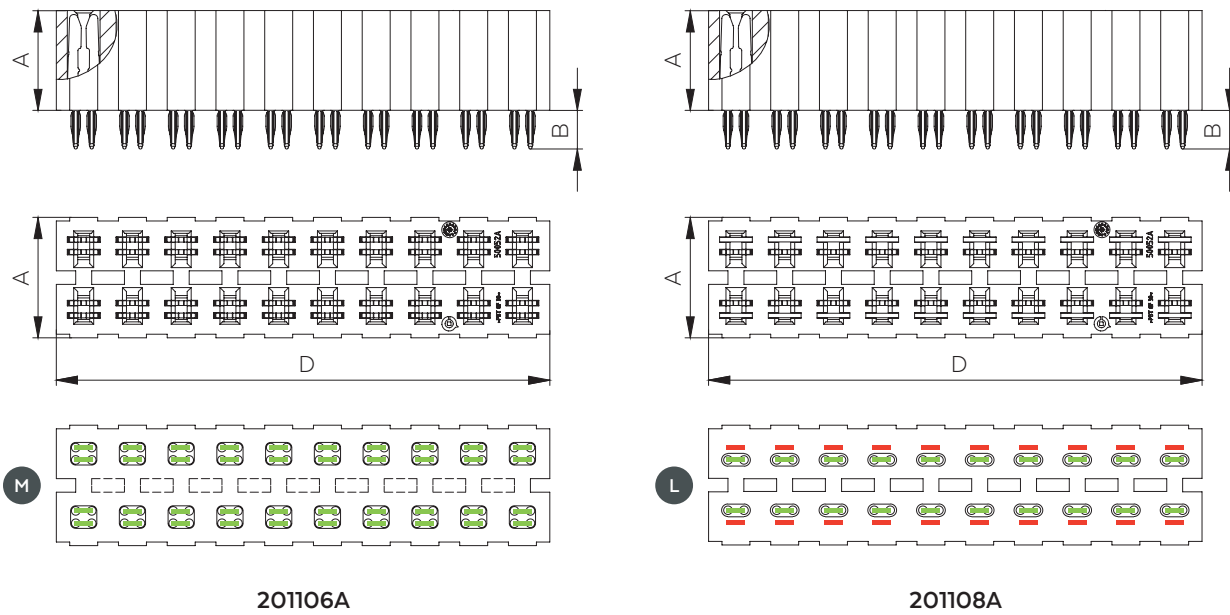
COLOR VARIANTS

Color	Part number
● Black	20110XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201106A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201108A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
12.5	4.85	15.1	61.75	Mini (block of 10)	M (medium)	201106A
12.5	4.85	15.1	61.75	Mini (block of 10)	L (light)	201108A

Measurements A - D in mm



FUSE HOLDERS
ATO, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial ATO fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)



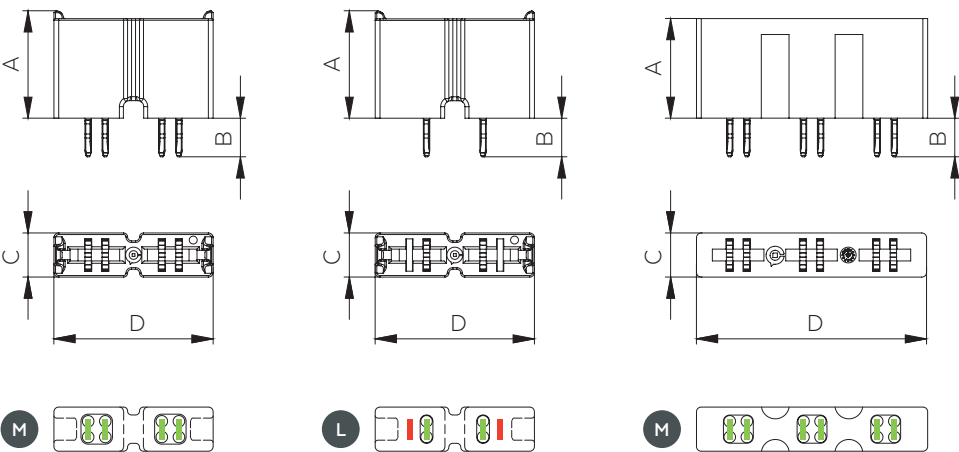
COLOR VARIANTS

Color	Part number
● Black	20120XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



201200A 201202A 201201A

RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201200A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201202A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201201A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
13.49	4.85	5.6	20	ATO	M (medium)	201200A
13.49	4.85	5.6	20	ATO	L (light)	201202A
12.5	4.85	5.6	29	ATO (chamber of 3)	M (medium)	201201A

Measurements A - D in mm



FUSE HOLDERS
ATO, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial ATO fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

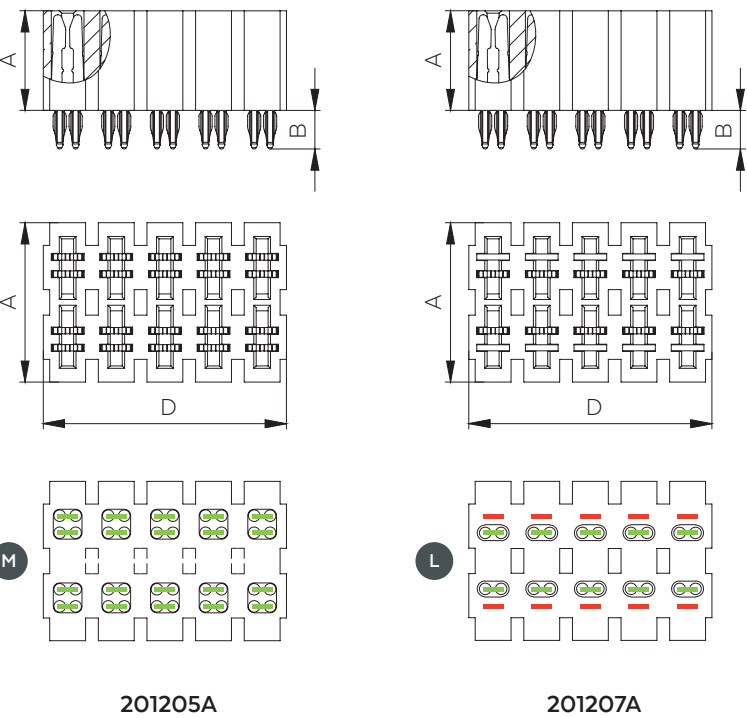
COLOR VARIANTS

Color	Part number
● Black	20120XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

							Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201205A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201207A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
12,5	4,85	20	30,5	ATO (block of 5)	M (medium)	201205A
12,5	4,85	20	30,5	ATO (block of 5)	L (light)	201207A

Measurements A - D in mm



FUSE HOLDERS
ATO, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial ATO fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

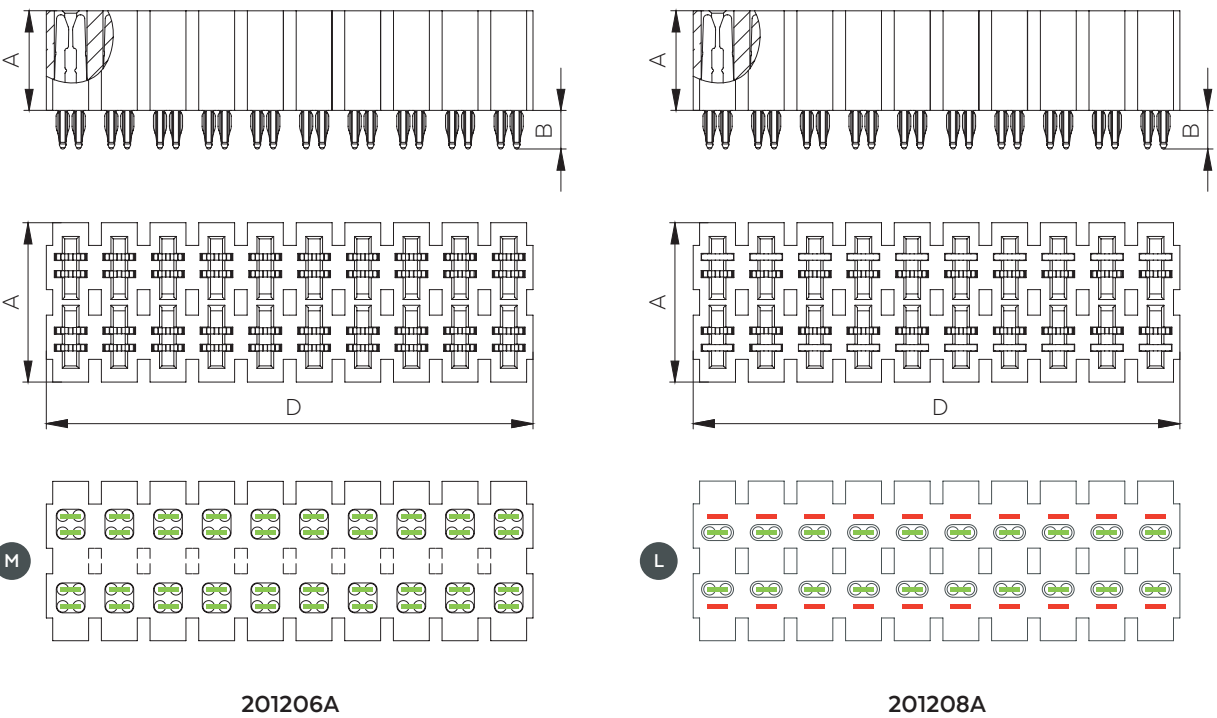
COLOR VARIANTS

Color	Part number
● Black	20120XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201206A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201208A

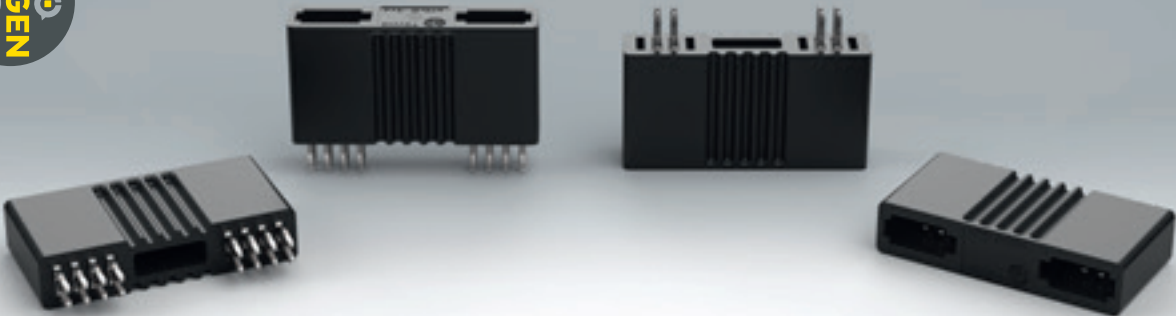
TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
12,5	4,85	20	61	ATO (block of 10)	M (medium)	201206A
12,5	4,85	20	61	ATO (block of 10)	L (light)	201208A

Measurements A - D in mm



FUSE HOLDERS
MAXI, PRESS-FIT



PRODUCT SPECIFICATION

- Fuse holders for all commercial maxi fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 70 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

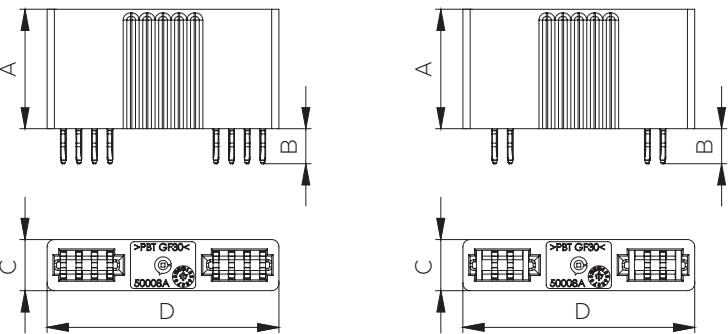
COLOR VARIANTS

Color	Part number
● Black	20130XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



HD201300A

M201301A

RATING

⚡	🔥	⚡	💧	🔧	📦	🔗	€	Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201300A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201301A

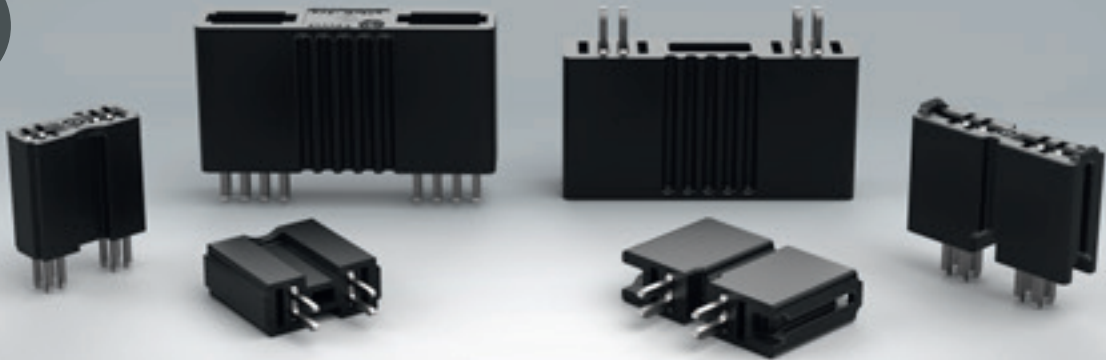
TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
16.5	4.85	7.1	32	Maxi	HD (high density)	201300A
16.5	4.85	7.1	32	Maxi	M (medium)	201301A

Measurements A - D in mm



FUSE HOLDERS
ATO, THT SOLDERING



PRODUCT SPECIFICATION

- Fuse holders for all commercial mini fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- For THT wave soldering

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

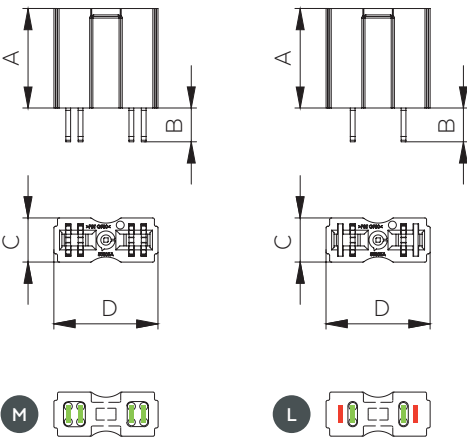
COLOR VARIANTS

Color	Part number
● Black	20113XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



201130A 201131A

RATING

								Part number
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201130A
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201131A

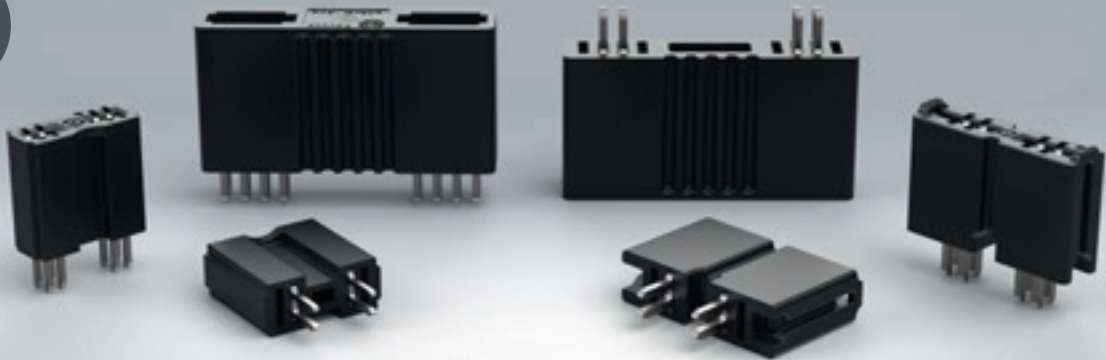
TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
12.5	4.25	5.6	13.1	Mini	M (medium)	201130A
12.5	4.25	5.6	13.1	Mini	L (light)	201131A

Measurements A - D in mm



FUSE HOLDERS
ATO, THT SOLDERING



PRODUCT SPECIFICATION

- Fuse holders for all commercial ATO fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- For THT wave soldering

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

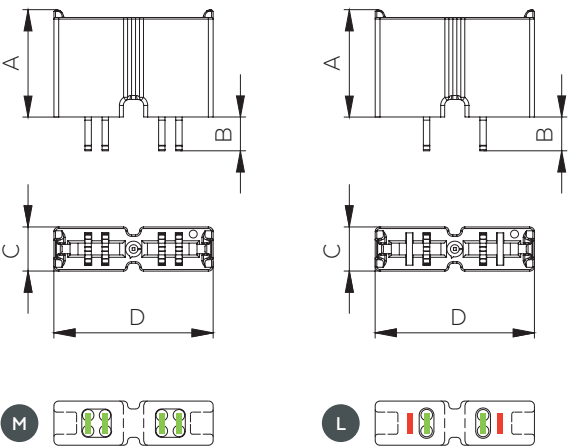
COLOR VARIANTS

Color	Part number
● Black	20123XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



201230A 201231A

RATING

								Part number
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201230A
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	201231A

TECHNICAL DATA

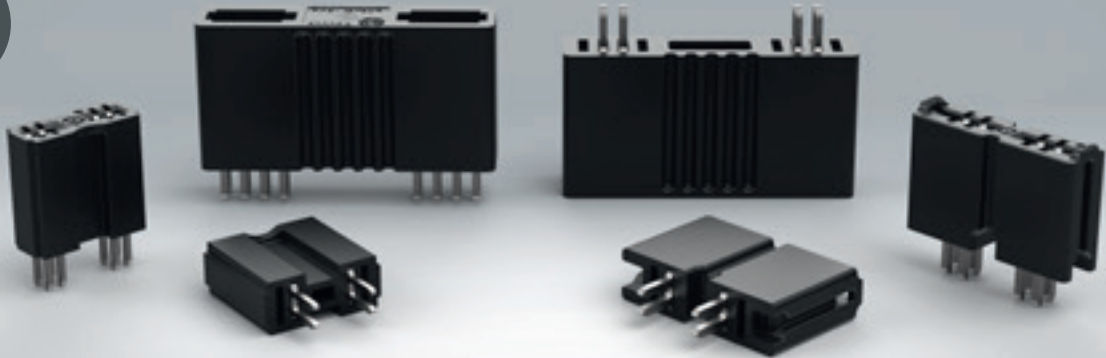
A	B	C	D	Dimensions	Assembly	Part number
13.49	4.25	5.6	20	ATO	M (medium)	201230A
13.49	4.25	5.6	20	ATO	L (light)	201231A

Measurements A - D in mm



FUSE HOLDERS
MAXI, THT SOLDERING

3rd GEN



PRODUCT SPECIFICATION

- Fuse holders for all commercial maxi fuses
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 70 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- For THT wave soldering

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

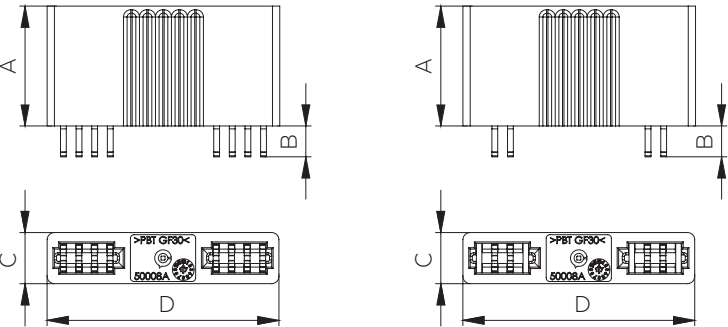
COLOR VARIANTS

Color	Part number
● Black	20133XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



HD

201330A

M

201331A

RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201330A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	201331A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
16.5	4.25	7.1	32	Maxi	HD (high density)	201330A
16.5	4.25	7.1	32	Maxi	M (medium)	201331A

Measurements A - D in mm



RELAY SOCKETS
MICRO, PRESS-FIT



PRODUCT SPECIFICATION

- Relay sockets for all commercial micro relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

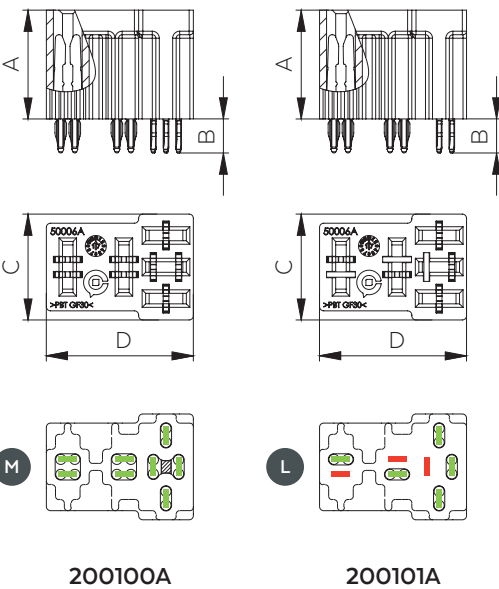
COLOR VARIANTS

Color	Part number
● Black	20010XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200100A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200101A

TECHNICAL DATA

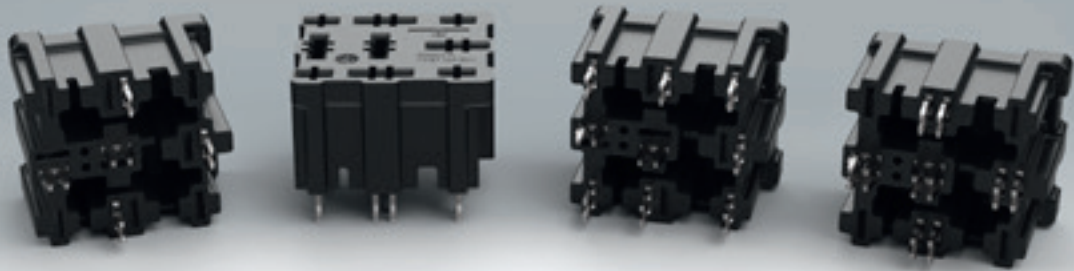
A	B	C	D	Dimensions	Assembly	Part number
15.5	4.85	15.1	20.95	Micro	M (medium)	200100A
15.5	4.85	15.1	20.95	Micro	L (light)	200101A

Measurements A - D in mm



RELAY SOCKETS
MINI, PRESS-FIT

3rd GEN



PRODUCT SPECIFICATION

- Relay sockets for all commercial mini relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

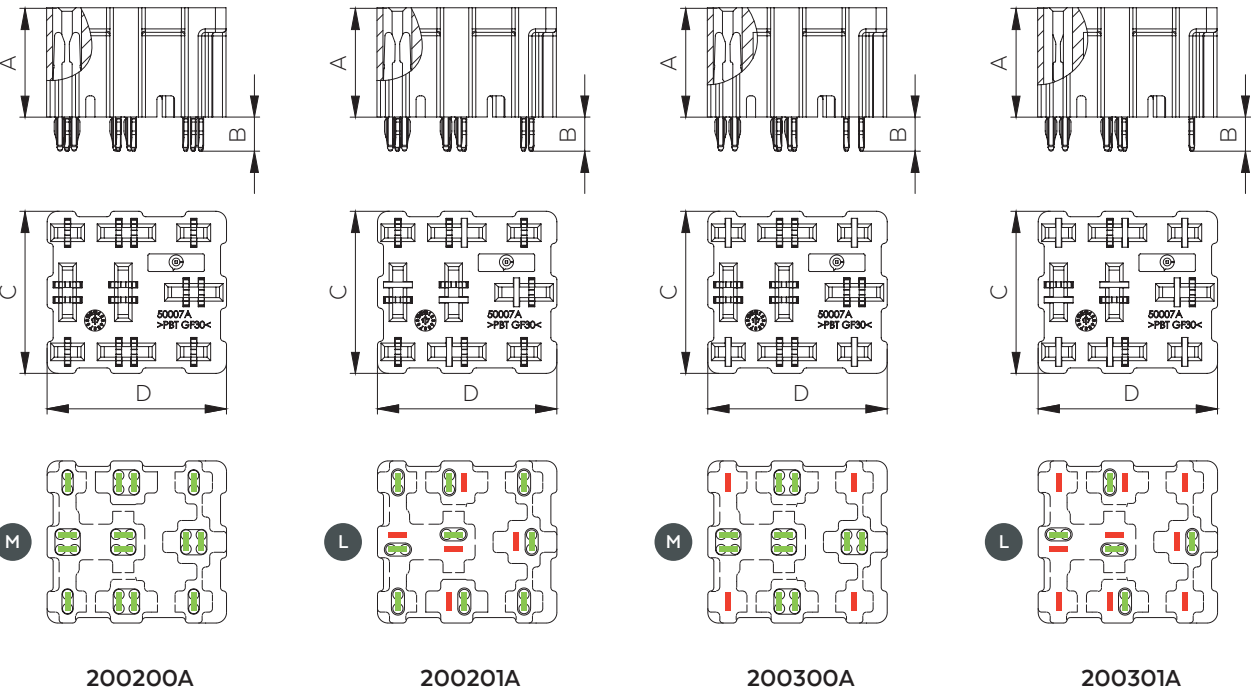
COLOR VARIANTS

Color	Part number
● Black	200X0XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200200A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200201A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200300A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200301A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
15.5	4.85	23	25.45	Mini (9-pin)	M (medium)	200200A
15.5	4.85	23	25.45	Mini (9-pin)	L (light)	200201A
15.5	4.85	23	25.45	Mini (5-pin)	M (medium)	200300A
15.5	4.85	23	25.45	Mini (5-pin)	L (light)	200301A

Measurements A - D in mm



RELAY SOCKETS

MAXI WITH TWO N.O. CONTACTS, PRESS-FIT

3rd GEN



PRODUCT SPECIFICATION

- Relay sockets with two N.O. contacts for all commercial maxi relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 70 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

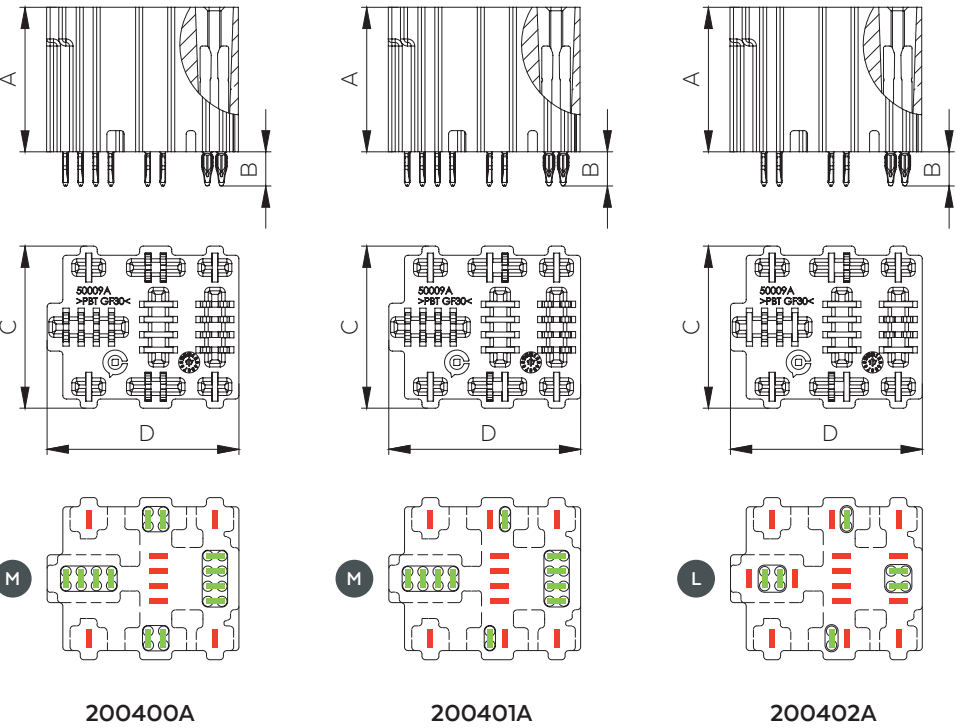
COLOR VARIANTS

Color	Part number
● Black	20040XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

⚡	↺	⚡	💧	🔒	📡	🔗	⌚	Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200400A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200401A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200402A

TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
20.5	4.85	23	27.2	Maxi	M (medium)	200400A
20.5	4.85	23	27.2	Maxi	M (medium)	200401A
20.5	4.85	23	27.2	Maxi	L (light)	200402A

Measurements A - D in mm



RELAY SOCKETS
MAXI WITH THREE N.O. CONTACTS, PRESS-FIT

3rd GEN



PRODUCT SPECIFICATION

- Relay sockets with three N.O. contacts for all commercial maxi relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 70 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

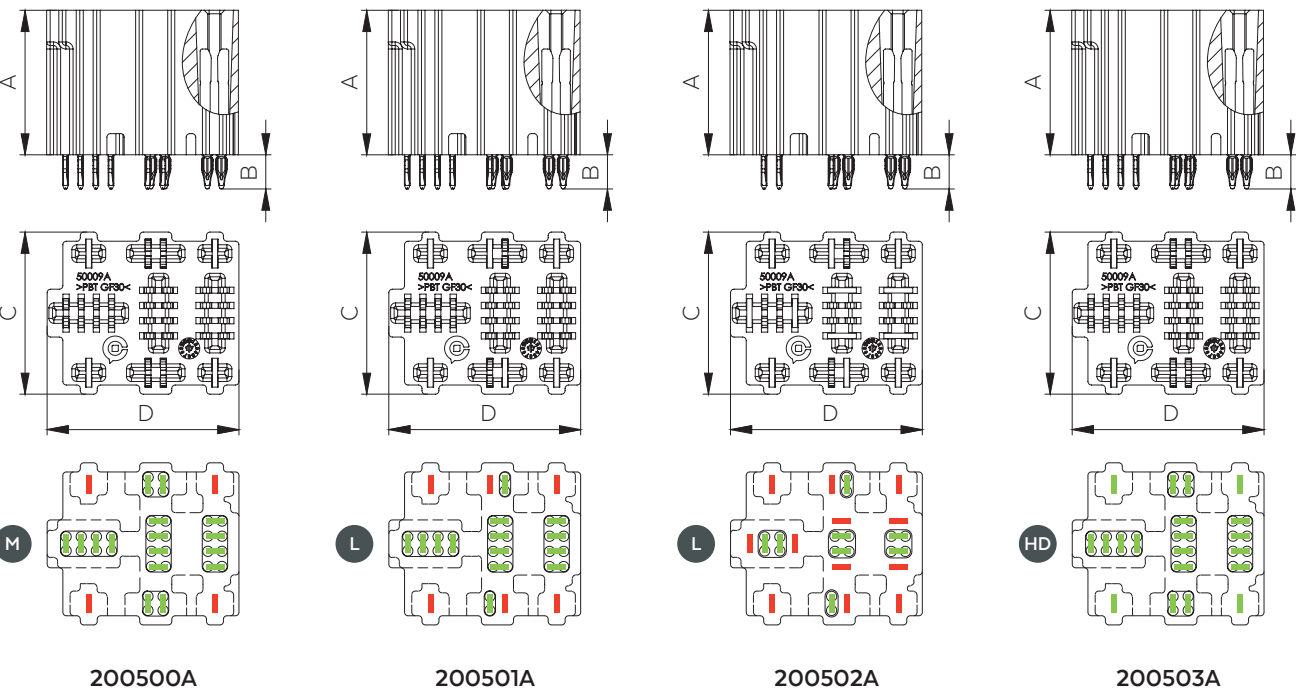
COLOR VARIANTS

Color	Part number
● Black	20050XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200500A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200501A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200502A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200503A

TECHNICAL DATA

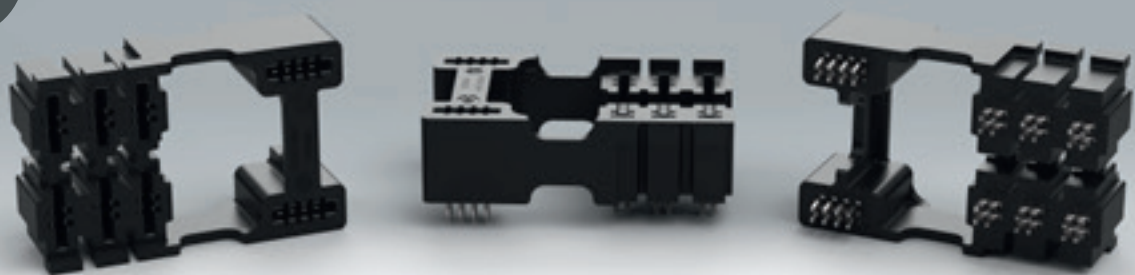
A	B	C	D	Dimensions	Assembly	Part number
20,5	4,85	23	27,2	Maxi	M (medium)	200500A
20,5	4,85	23	27,2	Maxi	L (light)	200501A
20,5	4,85	23	27,2	Maxi	L (light)	200502A
20,5	4,85	23	27,2	Maxi	HD (high density)	200503A

Meßangaben in mm



RELAY SOCKET
BONE, PRESS-FIT

3rd GEN



PRODUCT SPECIFICATION

- Bone relay sockets for many commercial High Power PCB relays
- For voltages of 12 V and 24 V
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- In proven flexible press-fit technology (pressure insertion tools available on demand)



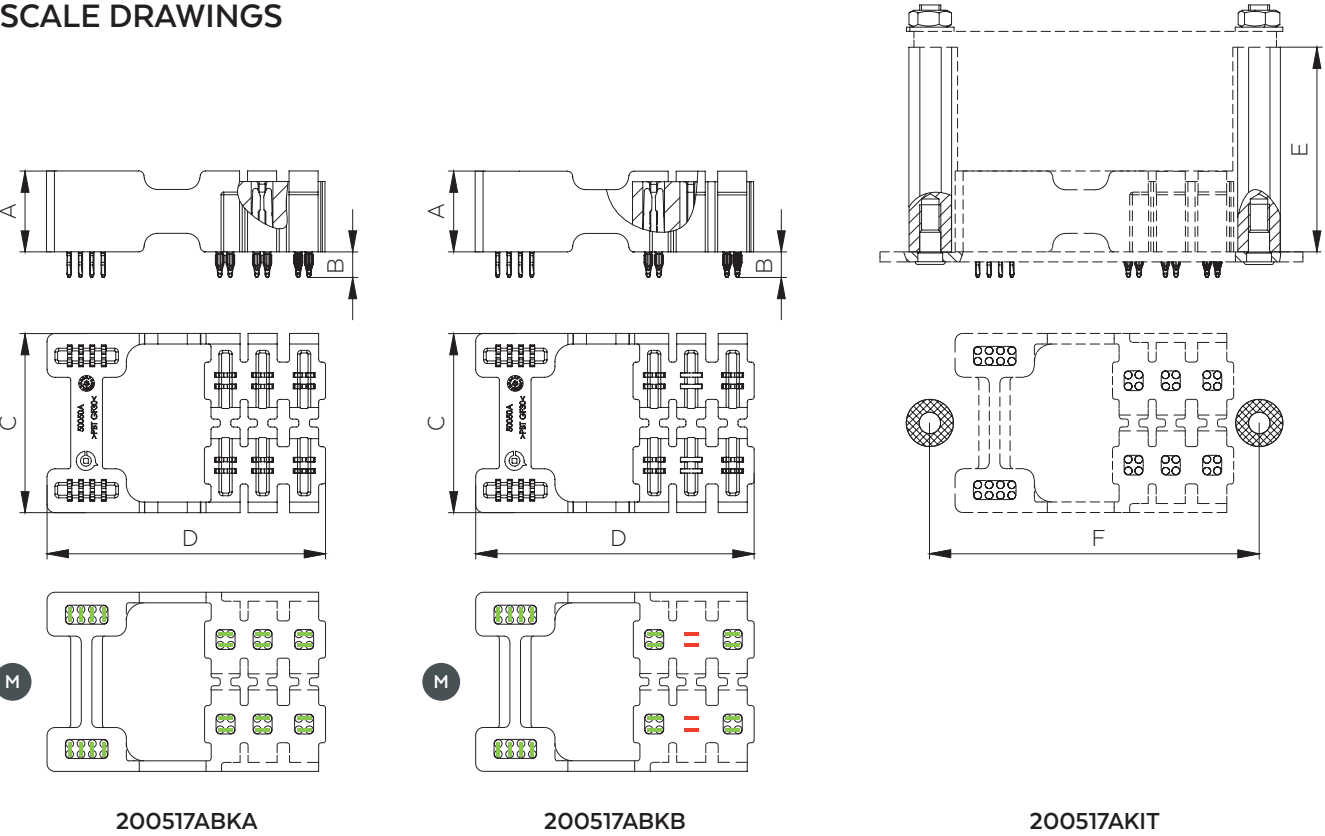
COLOR VARIANTS

Color	Part number
● Black	200517ABKX

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200517ABKA
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200517ABKB

TECHNICAL DATA

A	B	C	D	E	F	Dimensions	Assembly	Part number
15.3	4.85	33.9	52.68	-	-	Bone	M (medium)	200517ABKA
15.3	4.85	33.9	52.68	-	-	Bone	M (medium)	200517ABKB
-	-	-	-	38.5	62.2	Kit (Bone)	-	200517AKIT I
-	-	-	-	44	62.2	Kit (Bone)	-	200517AKIT II

Measurements A - D in mm



RELAY SOCKETS
MICRO, THT SOLDERING



PRODUCT SPECIFICATION

- Relay sockets for all commercial micro relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 30 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- For THT wave soldering

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

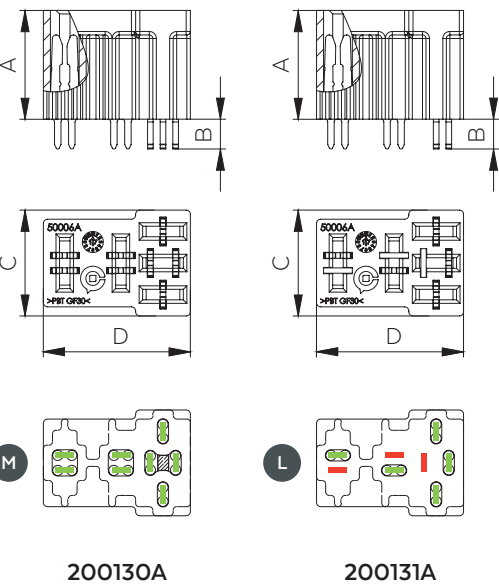
COLOR VARIANTS

Color	Part number
● Black	20013XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200130A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200131A

TECHNICAL DATA

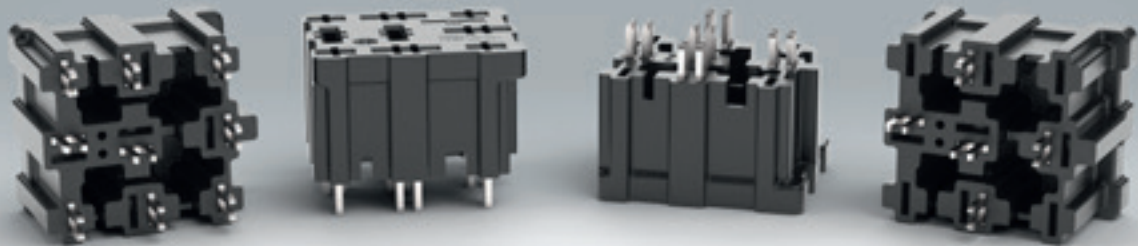
A	B	C	D	Dimensions	Assembly	Part number
15.5	4.25	15.1	20.95	Micro	M (medium)	200130A
15.5	4.25	15.1	20.95	Micro	L (light)	200131A

Measurements A - D in mm



RELAY SOCKETS
MINI, THT SOLDERING

3rd GEN



PRODUCT SPECIFICATION

- Relay sockets for all commercial mini relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- For THT wave soldering

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

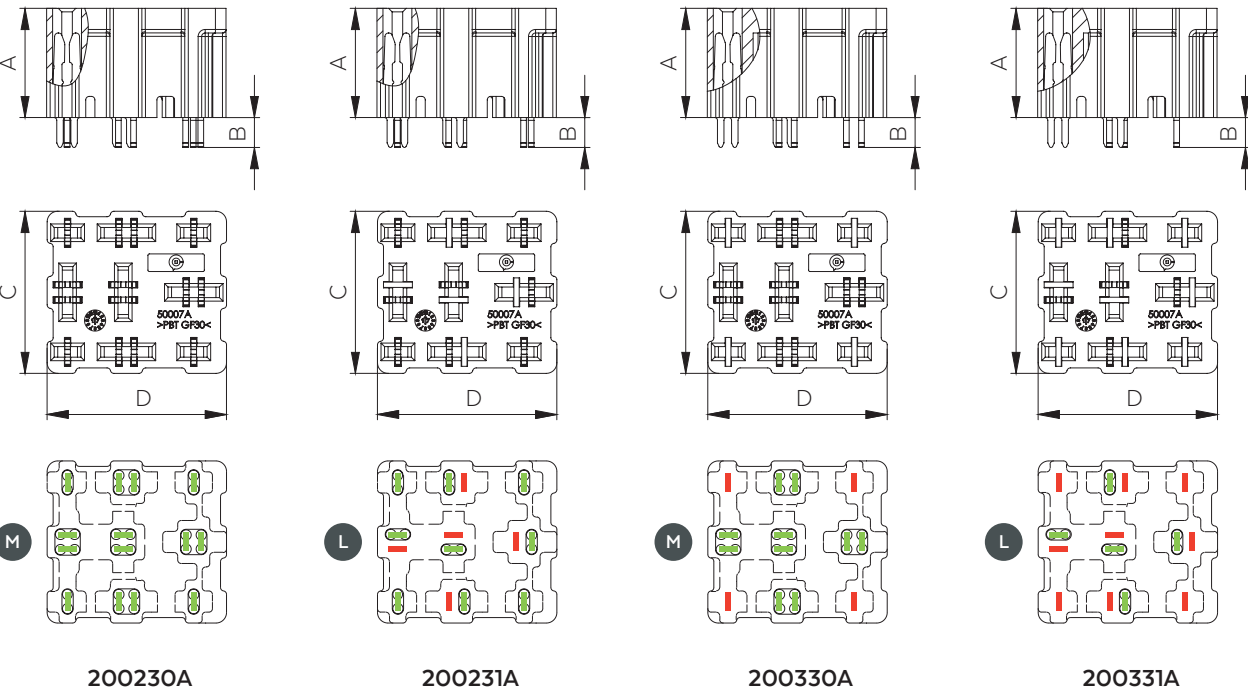
COLOR VARIANTS

Color	Part number
● Black	200X3XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

								Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200230A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200231A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200330A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200331A

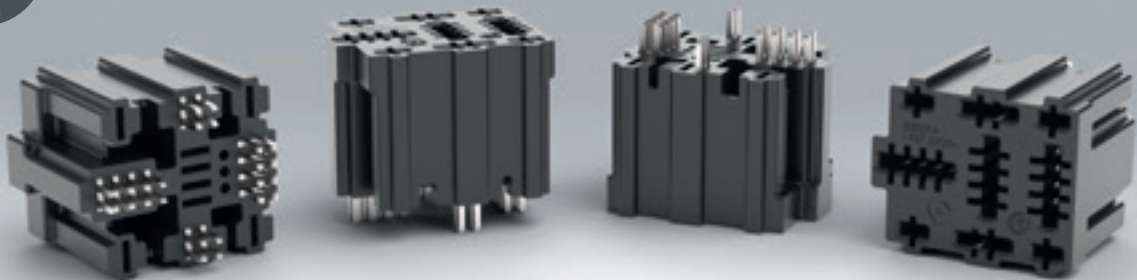
TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
15.5	4.25	23	25.45	Mini (9-pin)	M (medium)	200230A
15.5	4.25	23	25.45	Mini (9-pin)	L (light)	200231A
15.5	4.25	23	25.45	Mini (5-pin)	M (medium)	200330A
15.5	4.25	23	25.45	Mini (5-pin)	L (light)	200331A

Measurements A - D in mm



RELAY SOCKETS
MAXI, THT SOLDERING



PRODUCT SPECIFICATION

- Relay sockets for all commercial maxi relays
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 70 A (depending on layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- For THT wave soldering

RoHS
COMPLIANT

REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

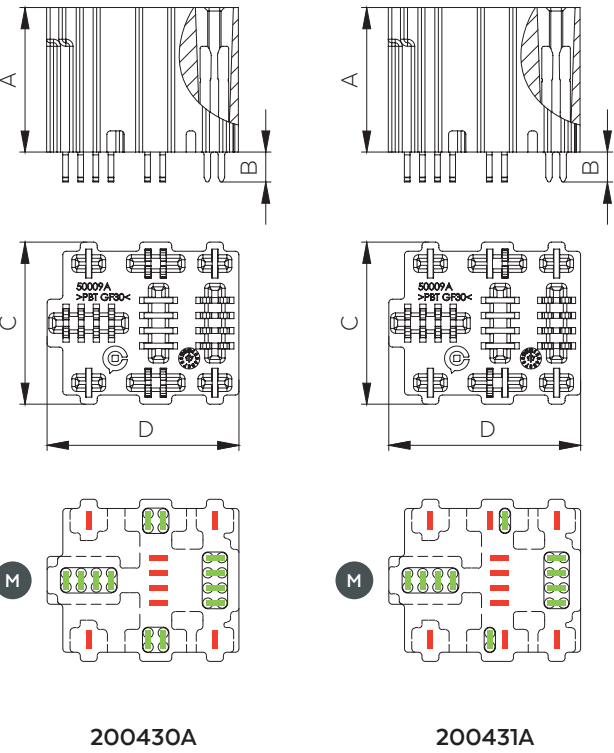
COLOR VARIANTS

Color	Part number
● Black	20043XABK

ASSEMBLY

Mark	Meaning
● Anthracite	Application class
● Green	Equipped
● Red	Unequipped

SCALE DRAWINGS



RATING

							Part number
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200430A
● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●	200431A

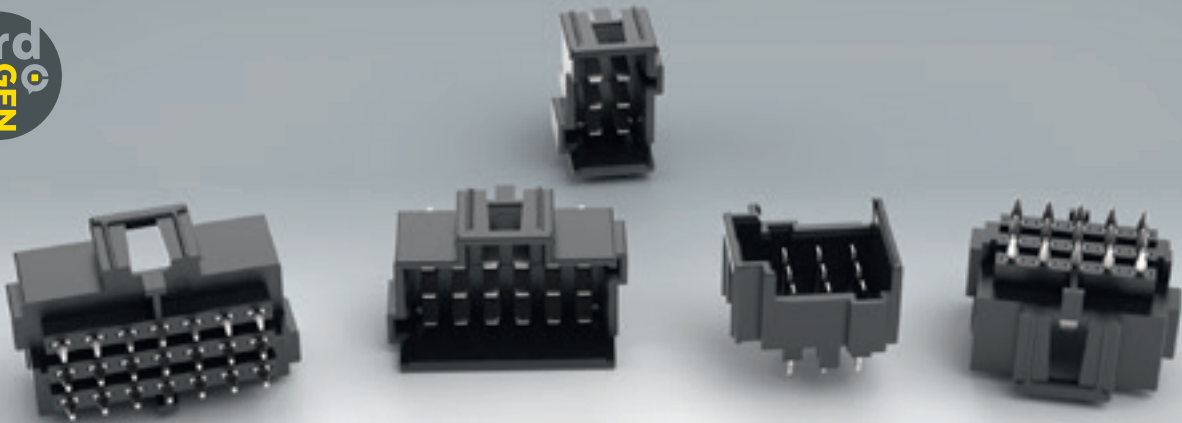
TECHNICAL DATA

A	B	C	D	Dimensions	Assembly	Part number
20.5	4.25	23	27.2	Maxi	M (medium)	200430A
20.5	4,25	23	27.2	Maxi	M (medium)	200431A

Measurements A - D in mm



PCB CONNECTORS
JPT, 3-ROWED, PRESS-FIT



PRODUCT SPECIFICATION

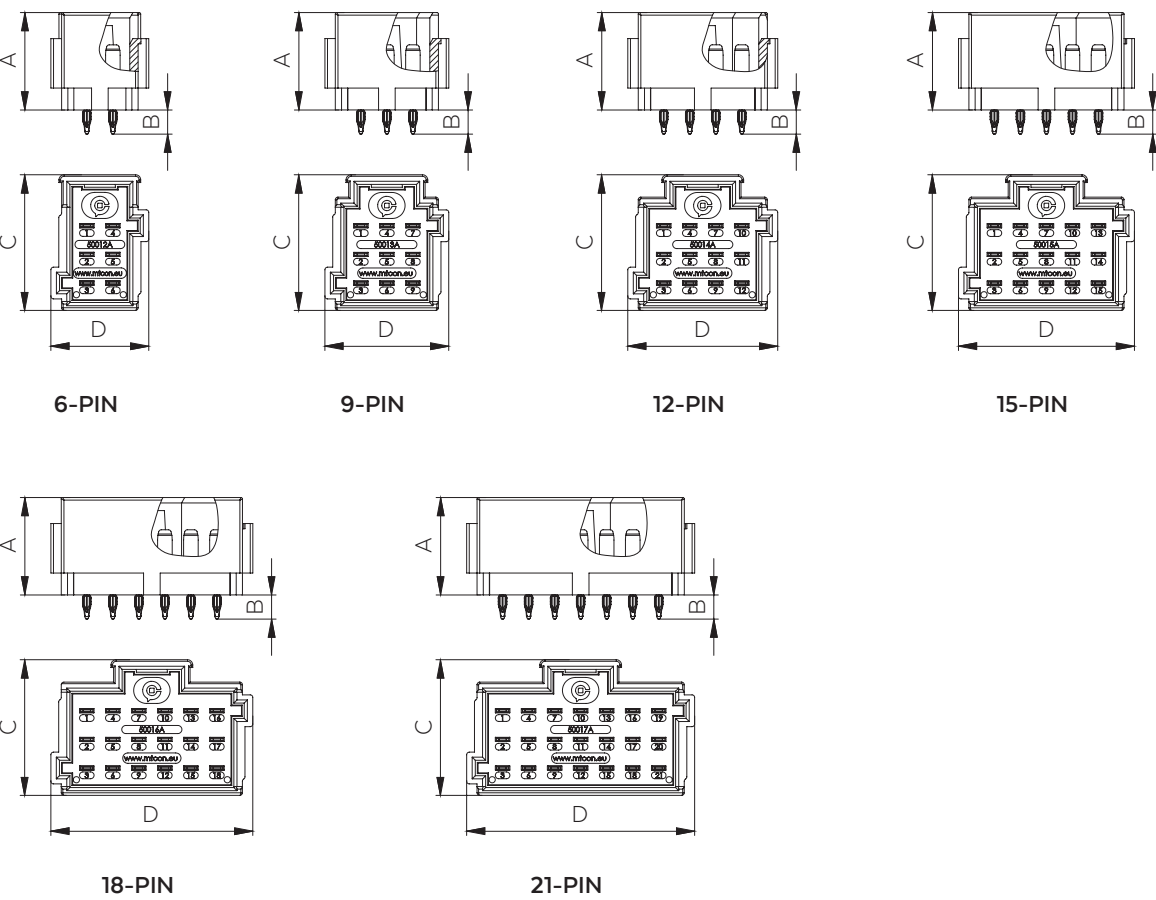
- 3-rowed PCB connector series, number of poles: 6 – 9 – 12 – 15 – 18 – 21
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 15 A
(depending on number of poles, layout and circuit board version)
- 2.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)



COLOR VARIANTS

Color	Part number
● Black	400X00ABK
● Blue	400X00ABU
● Grey	400X00AGY
● Yellow	400X00AYE
● Green	400X00AGN
● Pink	400X00APK
● Brown	400X00ABN

MASSZEICHNUNGEN



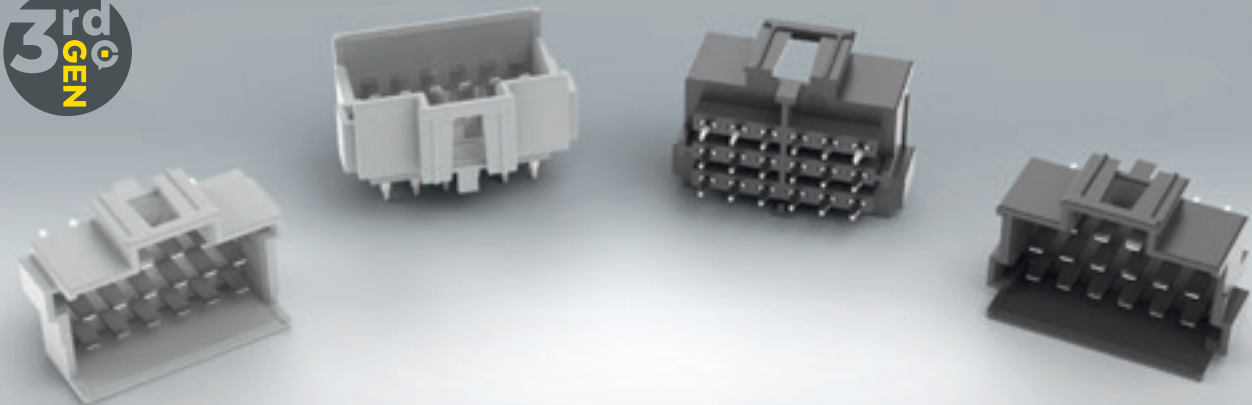
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
18.7	4.65	26.05	18.8	6-pin	400100A
18.7	4.65	26.05	23.8	9-pin	400200A
18.7	4.65	26.05	28.8	12-pin	400300A
18.7	4.65	26.05	33.8	15-pin	400400A
18.7	4.65	26.05	38.8	18-pin	400500A
18.7	4.65	26.05	43.8	21-pin	400600A

Measurements A – D in mm



PCB CONNECTORS
JPT, COD, PRESS-FIT



PRODUCT SPECIFICATION

- 18-pin PCB connectors
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 15 A
(depending on number of poles, layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

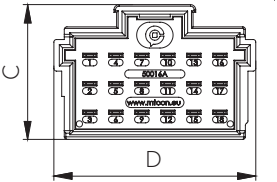
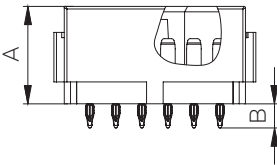
REACH
COMPLIANT

ELV
END-OF-LIFE-
VEHICLES

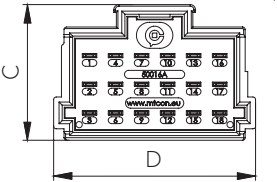
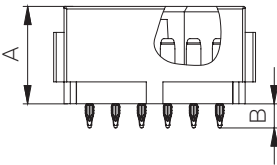
COLOR VARIANTS

Color	Part number
● White	400501AWHB
● Grey	400502AGYC

SCALE DRAWINGS



18-PIN (COD-B)



18-PIN (COD-C)

TECHNICAL DATA

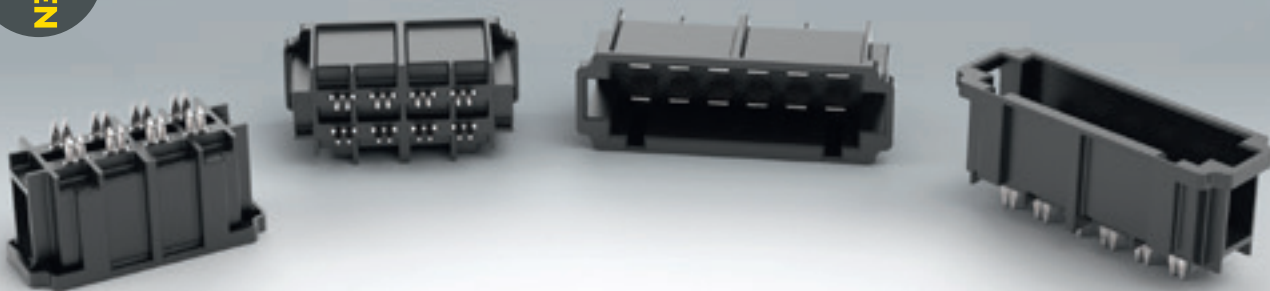
A	B	C	D	Dimensions	Part number
18.7	4.65	26.05	38.8	18-pin (COD-B)	400501AWHB
18.7	4.65	26.05	38.8	18-pin (COD-C)	400502AGYC

Measurements A - D in mm



PCB CONNECTORS
G&H, PRESS-FIT

3rd GEN



PRODUCT SPECIFICATION

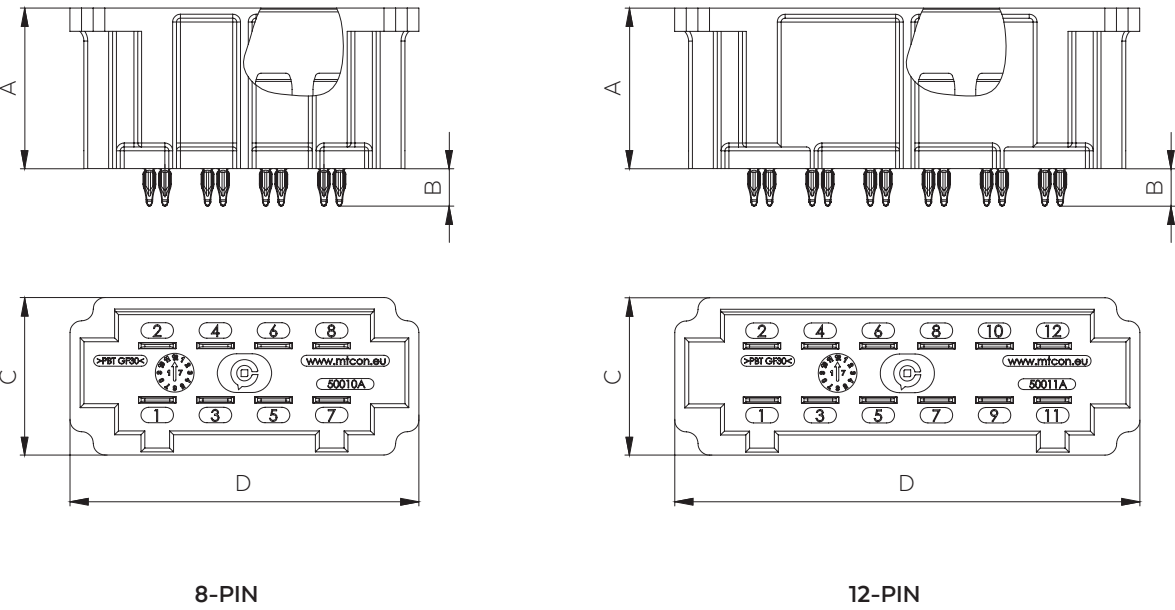
- 2-rowed PCB connector series, number of poles: 8 – 12
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A
(depending on number of poles, layout and circuit board version)
- 4.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)



COLOR VARIANTS

Color	Part number
● Black	401X00ABK
● Blue	401X00ABU
● White	401X00AWH
● Red	401X00ARD

SCALE DRAWINGS



TECHNICAL DATA

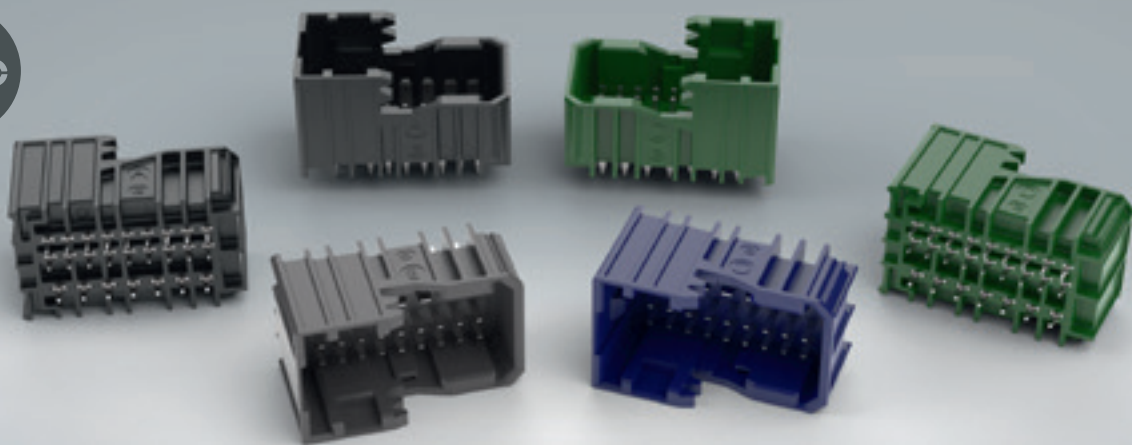
A	B	C	D	Dimensions	Part number
20.7	4.85	20.3	45	8-pin	401100A
20.7	4.85	20.3	60	12-pin	401200A

Measurements A – D in mm



PCB CONNECTORS
MCPIN 25-PIN, PRESS-FIT

3rd GEN



PRODUCT SPECIFICATION

- 25-pin PCB connector series
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 3 A for 1.6 mm blades and approx. 15 A for 2.8 mm blades (depending on number of poles, layout and circuit board version)
- 1.6 mm and 2.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

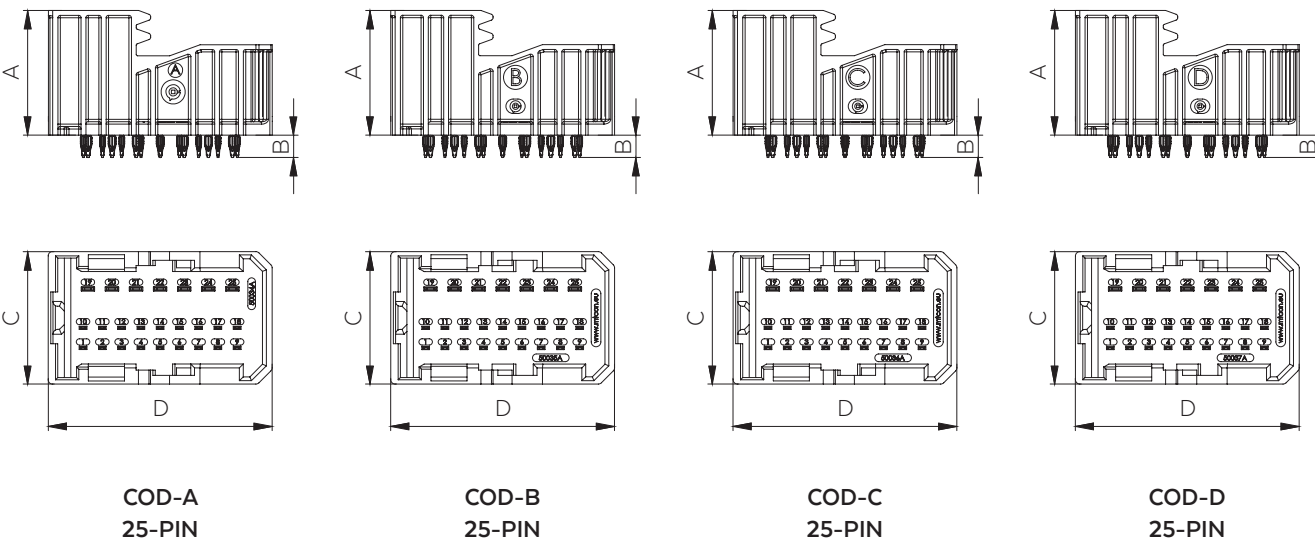
REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

COLOR VARIANTS

Color	Part number
● Black	403100ABKA
● Grey	403100AGYB
● Blue	403100ABUC
● Green	403100AGND

SCALE DRAWINGS



TECHNICAL DATA

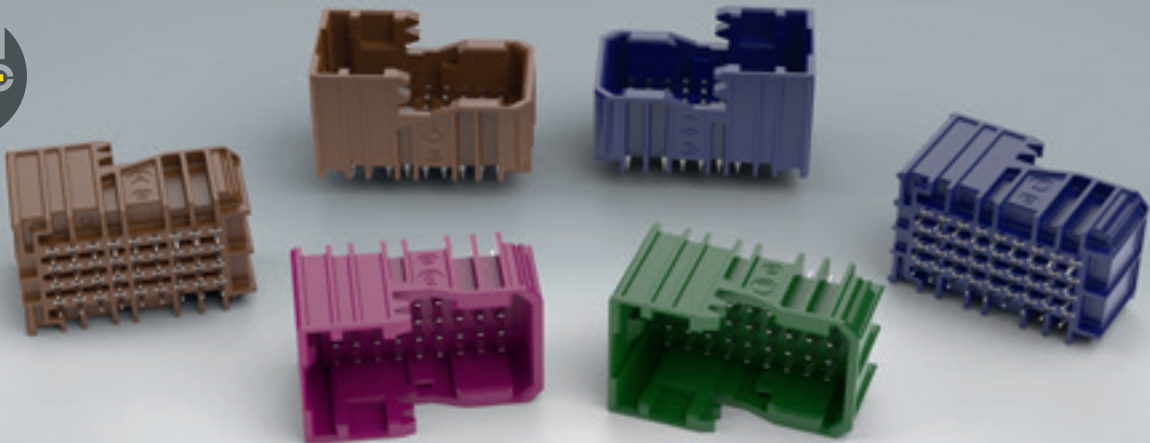
A	B	C	D	Dimensions	Part number
25.9	4.65	27.5	46.5	25-pin	403100ABKA
25.9	4.65	27.5	46.5	25-pin	403100AGYB
25.9	4.65	27.5	46.5	25-pin	403100ABUC
25.9	4.65	27.5	46.5	25-pin	403100AGND

Measurements A - D in mm



PCB CONNECTORS
MCPIN 36-PIN, PRESS-FIT

3rd GEN



PRODUCT SPECIFICATION

- 36-pin PCB connector series
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 3 A for 1.6 mm blades (depending on number of poles, layout and circuit board version)
- 1.6 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- In proven flexible press-fit technology (pressure insertion tools available on demand)

RoHS
COMPLIANT

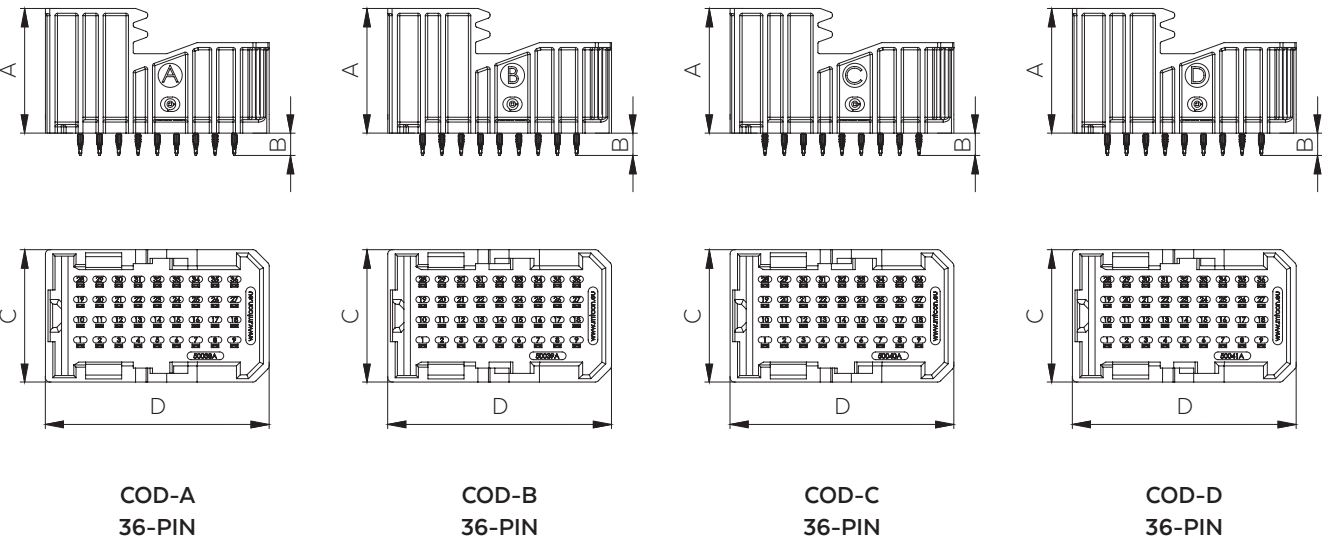
REACH
COMPLIANT

ELV
END-OF-LIFE-VEHICLES

COLOR VARIANTS

Color	Part number
● Brown	403200ABNA
● Violet	403200AVIB
● Green	403200AGNC
● Blue	403200ABUD

SCALE DRAWINGS



TECHNICAL DATA

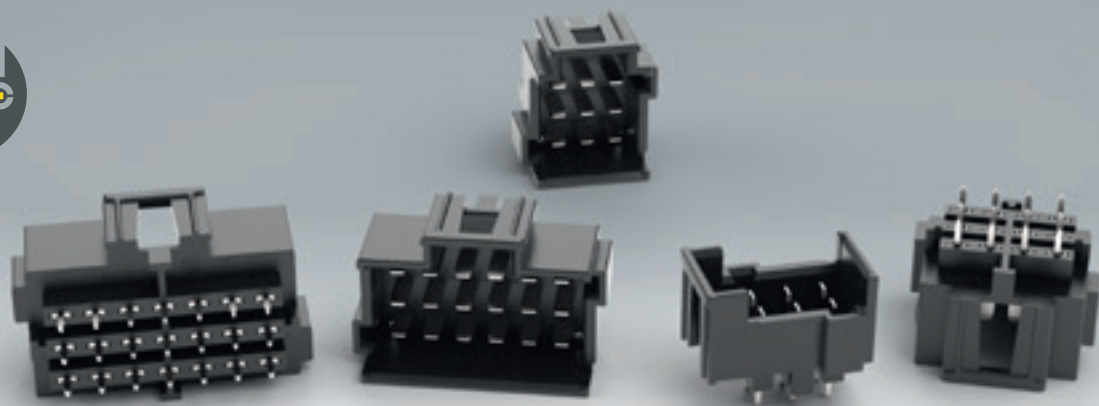
A	B	C	D	Dimensions	Part number
25.9	4.65	27.5	46.5	36-pin	403200ABNA
25.9	4.65	27.5	46.5	36-pin	403200AVIB
25.9	4.65	27.5	46.5	36-pin	403200AGNC
25.9	4.65	27.5	46.5	36-pin	403200ABUD

Measurements A - D in mm



PCB CONNECTORS
JPT, 3-ROWED, THT SOLDERING

3rd GEN



PRODUCT SPECIFICATION

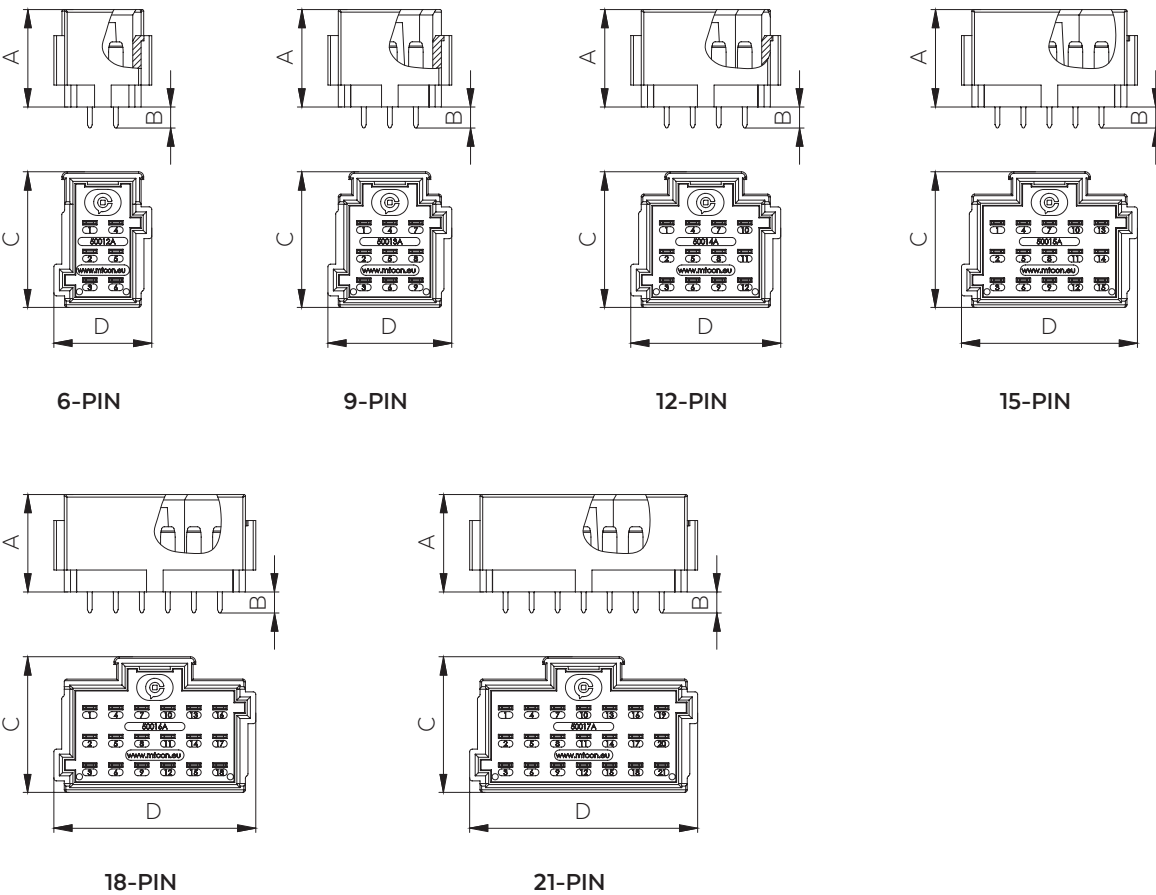
- 3-rowed PCB connector series, number of poles: 6 – 9 – 12 – 15 – 18 – 21
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 15 A
(depending on number of poles, layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- For THT wave soldering



COLOR VARIANTS

Color	Part number
● Black	400X30ABK
● Blue	400X30ABU
● Grey	400X30AGY
● Yellow	400X30AYE
● Green	400X30AGN
● Pink	400X30APK
● Brown	400X30ABN

SCALE DRAWINGS



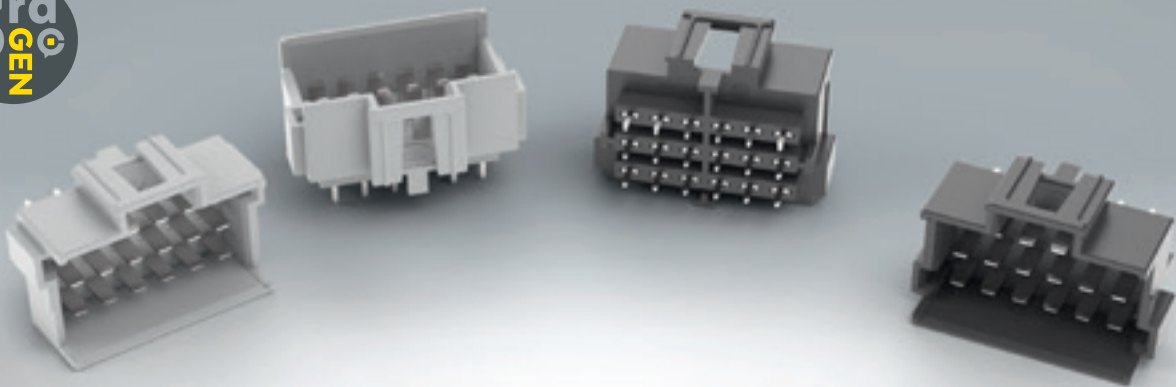
TECHNICAL DATA

A	B	C	D	Dimensions	Part number
18.7	4.05	26.05	18.8	6-pin	400130A
18.7	4.05	26.05	23.8	9-pin	400230A
18.7	4.05	26.05	28.8	12-pin	400330A
18.7	4.05	26.05	33.8	15-pin	400430A
18.7	4.05	26.05	38.8	18-pin	400530A
18.7	4.05	26.05	43.8	21-pin	400630A

Measurements A – D in mm



PCB CONNECTORS
JPT, COD, THT SOLDERING



PRODUCT SPECIFICATION

- 18-pin PCB connectors
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 15 A
(depending on number of poles, layout and circuit board version)
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- For THT wave soldering

RoHS
COMPLIANT

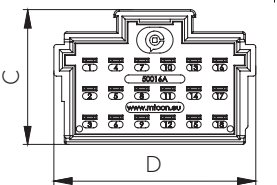
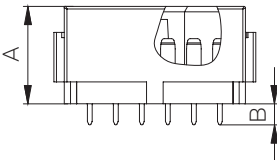
REACH
COMPLIANT

ELV
END-OF-LIFE-
VEHICLES

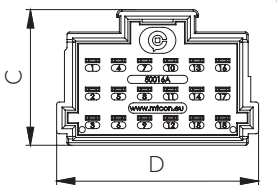
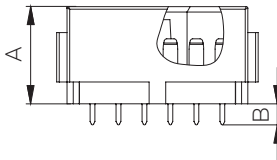
COLOR VARIANTS

Color	Part number
● White	400531AWHB
● Grey	400532AGYC

SCALE DRAWINGS



18-PIN (COD-B)



18-PIN (COD-C)

TECHNICAL DATA

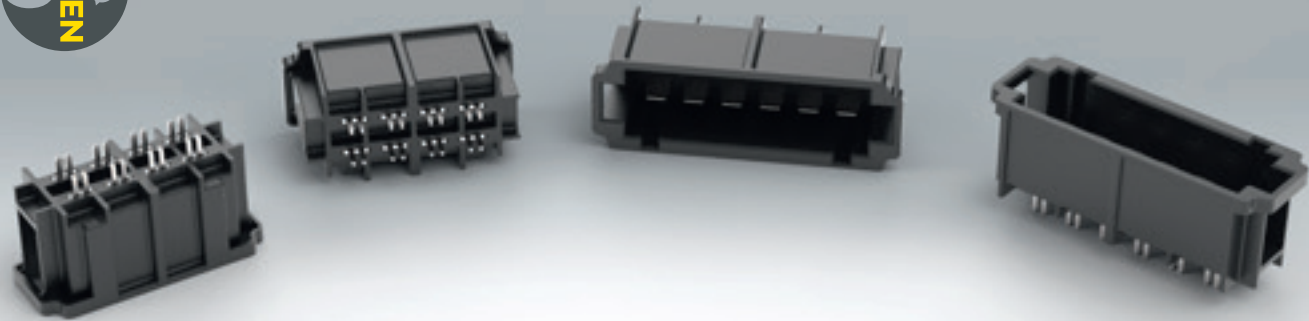
A	B	C	D	Dimensions	Part number
18.7	4.05	26.05	38.8	18-pin (COD-B)	400531AWHB
18.7	4.05	26.05	38.8	18-pin (COD-C)	400532AGYC

Measurements A - D in mm



PCB CONNECTORS
G&H, THT SOLDERING

3rd GEN



PRODUCT SPECIFICATION

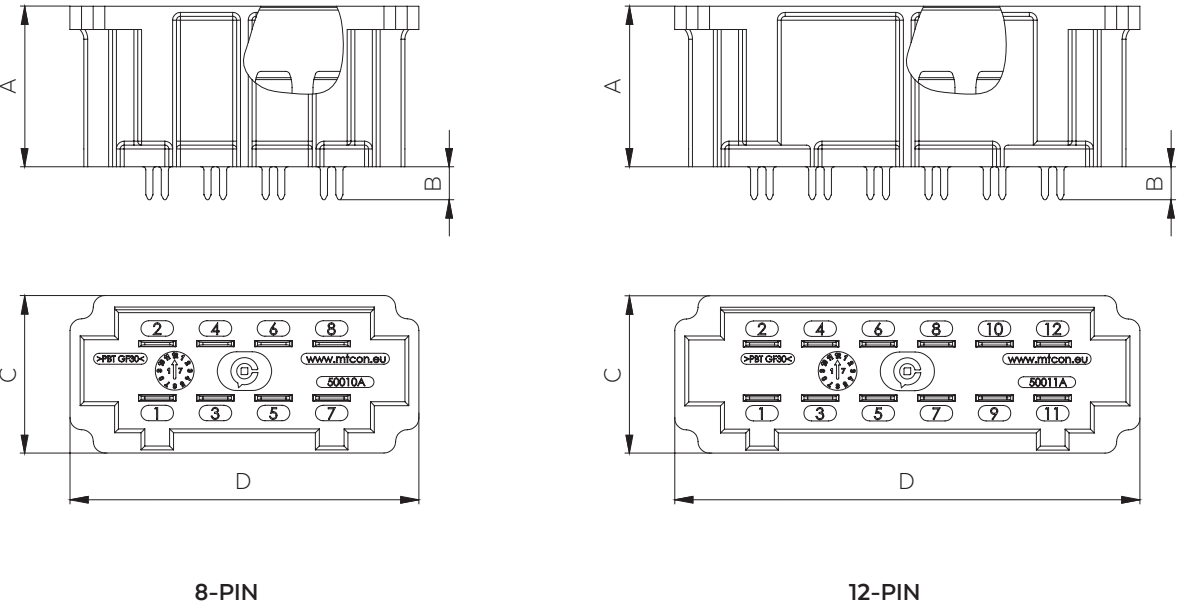
- 2-rowed PCB connector series, number of poles: 8 – 12
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 40 A
(depending on number of poles, layout and circuit board version)
- 4.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- For THT wave soldering



COLOR VARIANTS

Color	Part number
● Black	401X30ABK
● Blue	401X30ABU
● White	401X30AWH
● Red	401X30ARD

SCALE DRAWINGS



TECHNICAL DATA

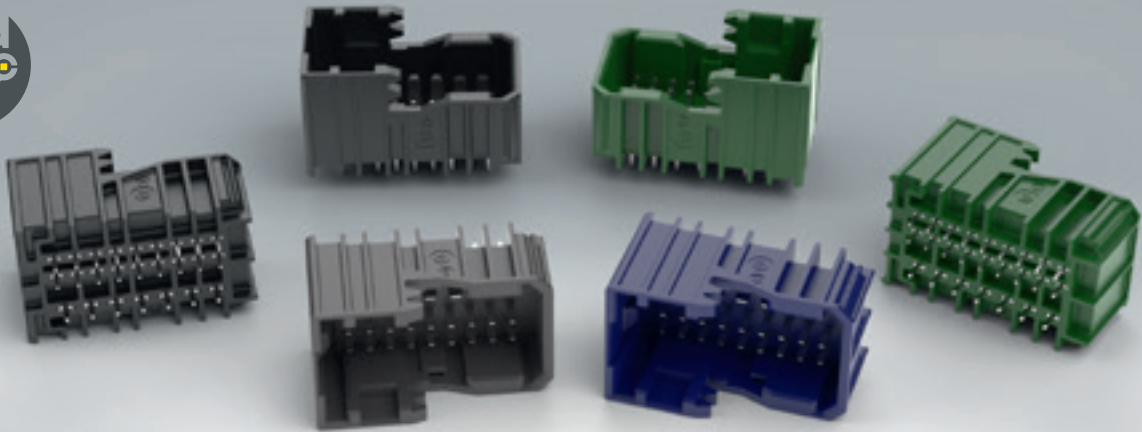
A	B	C	D	Dimensions	Part number
20.7	4.25	20.3	45	8-pin	401130A
20.7	4.25	20.3	60	12-pin	401230A

Measurements A – D in mm



PCB CONNECTORS
MCPIN 25-PIN, THT SOLDERING

3rd GEN



PRODUCT SPECIFICATION

- 25-pin PCB connector series
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 3 A for 1.6 mm blades and approx. 15 A for 2.8 mm blades (depending on number of poles, layout and circuit board version)
- 1.6 mm and 2.8 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- For THT wave soldering

RoHS
COMPLIANT

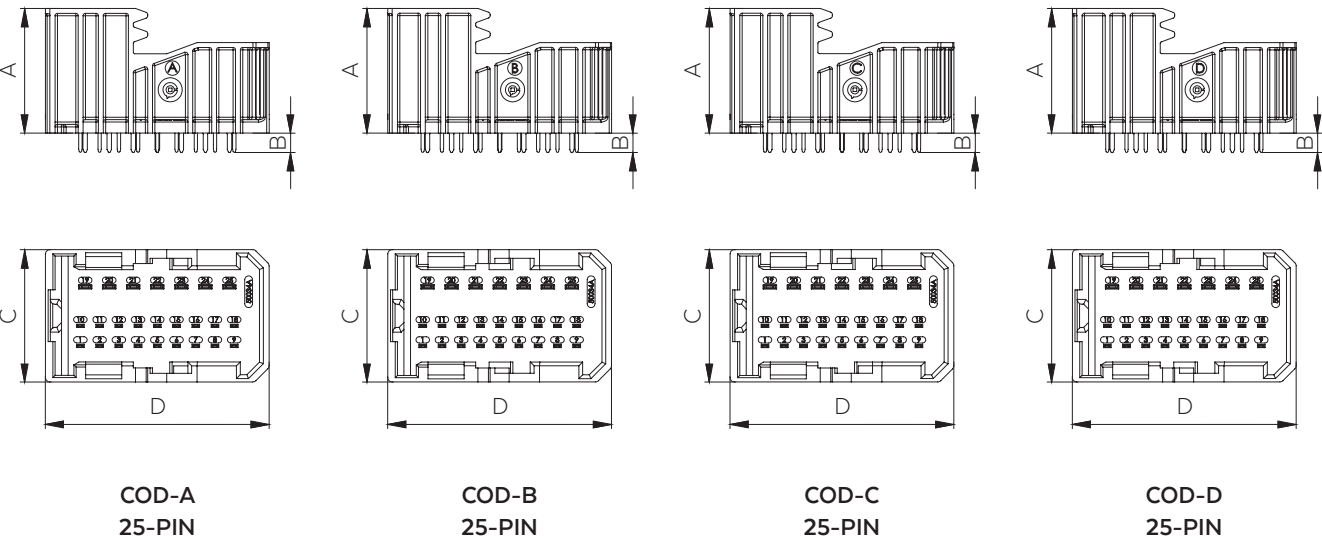
REACH
COMPLIANT

ELV
END-OF-LIFE-
VEHICLES

COLOR VARIANTS

Color	Part number
● Black	403130ABKA
● Grey	403130AGYB
● Blue	403130ABUC
● Green	403130AGND

SCALE DRAWINGS



TECHNICAL DATA

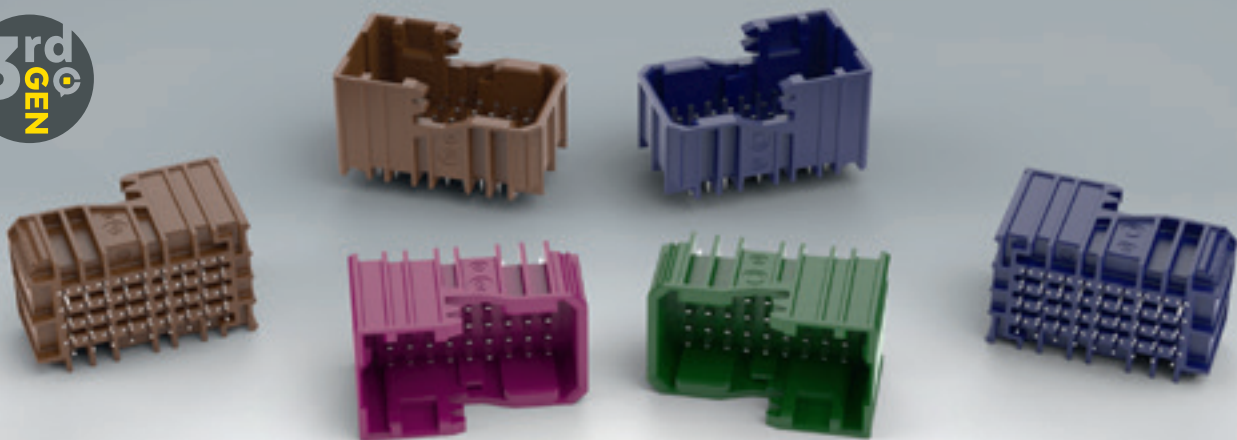
A	B	C	D	Dimensions	Part number
25.9	4.05	27.5	46.5	25-pin	403130ABKA
25.9	4.05	27.5	46.5	25-pin	403130AGYB
25.9	4.05	27.5	46.5	25-pin	403130ABUC
25.9	4.05	27.5	46.5	25-pin	403130AGND

Measurements A - D in mm



PCB CONNECTORS
MCPIN 36-PIN, THT SOLDERING

3rd GEN



PRODUCT SPECIFICATION

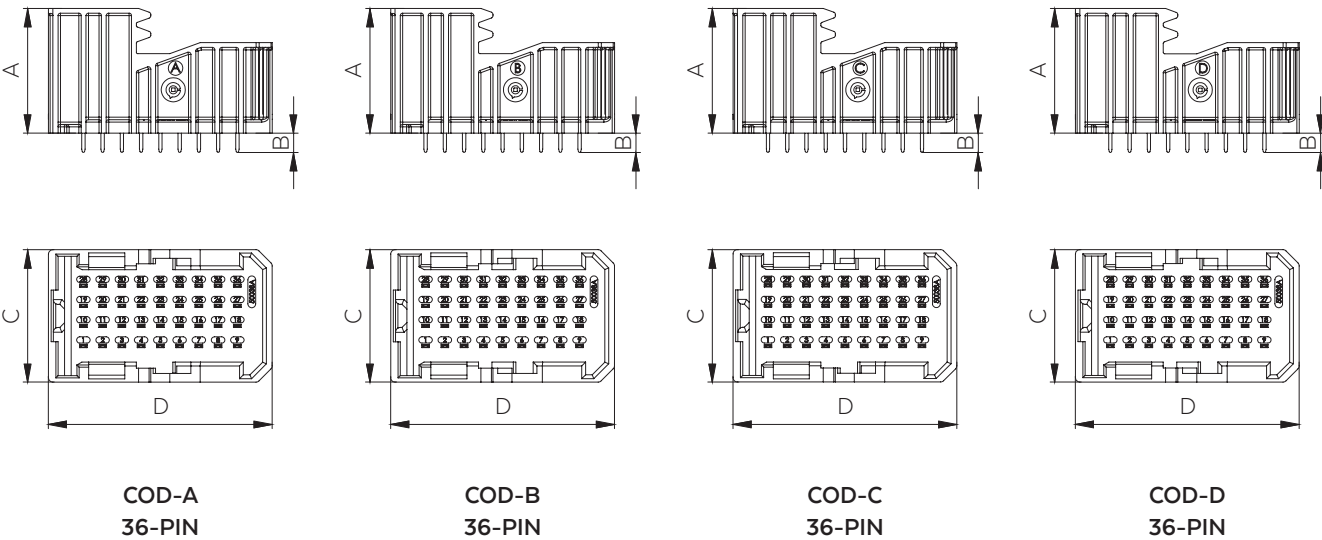
- 36-pin PCB connector series
- For voltages of 12 V and 24 V
- Maximum switching current: approx. 3 A for 1.6 mm blades (depending on number of poles, layout and circuit board version)
- 1.6 mm blade contacts
- Highest reliability in harsh environmental conditions (temperature change, strong vibrations, etc.)
- Compatible with commercial plug systems
- Additional codings and colors available on demand
- For THT wave soldering



COLOR VARIANTS

Color	Part number
Brown	403230ABNA
Violet	403230AVIB
Green	403230AGNC
Blue	403230ABUD

SCALE DRAWINGS



TECHNICAL DATA

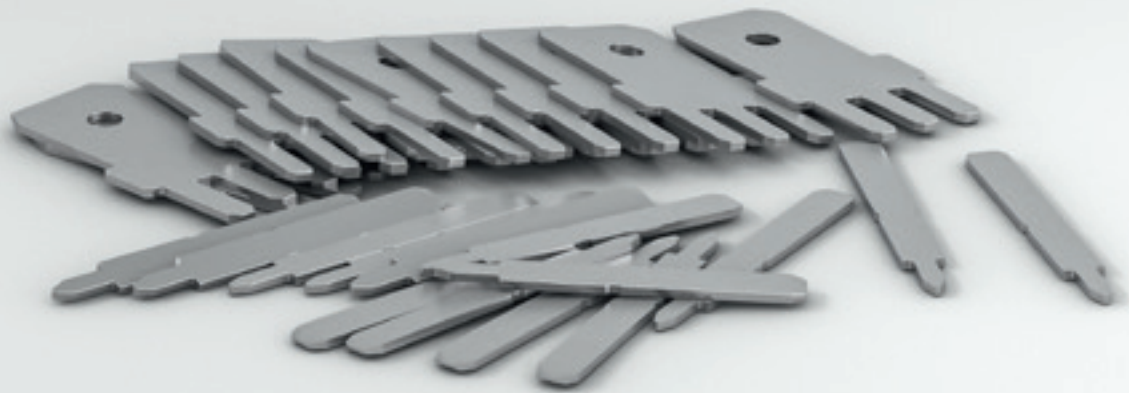
A	B	C	D	Dimensions	Part number
25.9	4.05	27.5	46.5	36-pin	403230ABNA
25.9	4.05	27.5	46.5	36-pin	403230AVIB
25.9	4.05	27.5	46.5	36-pin	403230AGNC
25.9	4.05	27.5	46.5	36-pin	403230ABUD

Measurements A - D in mm



CONTACT ELEMENTS

PRESS-FIT IN MASSIVE PRESS-FIT ZONE

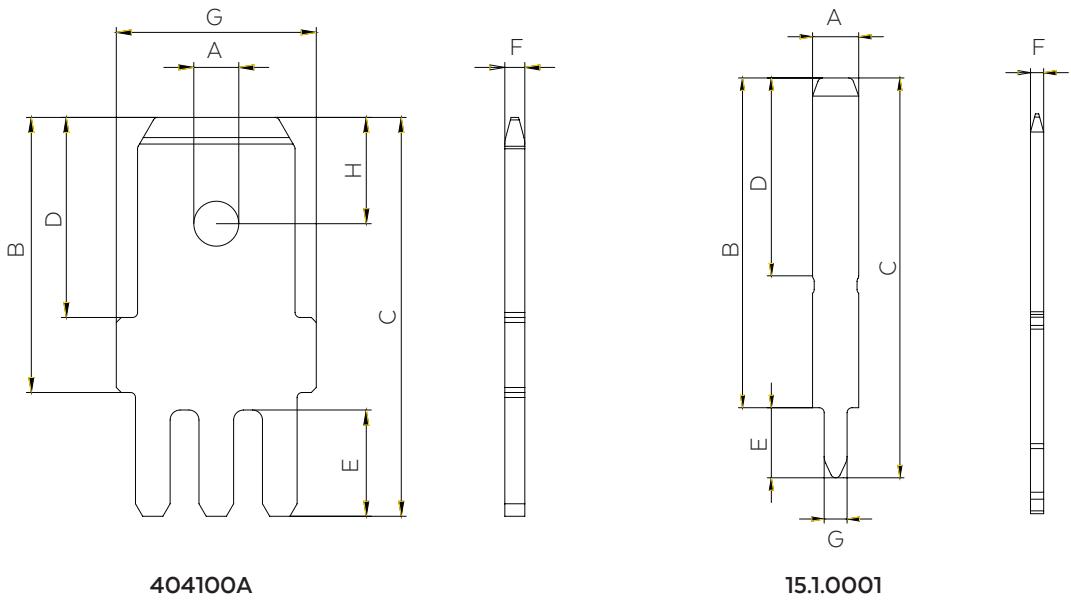


PRODUCT SPECIFICATION

- Modern press-fit and soldering technology (THT)
- Standard components/catalog products
- Customer-specific designs (shape, size, material, surface etc.) available on demand



SCALE DRAWINGS



TECHNISCHE DATEN

A	B	C	D	E	F	G	H	Dimensions	Part number
Ø 1,8	11	15,95	8	4,25	0,8	6,3	4,25	6,3 x 0,8	404100A
-	20	24,25	12	4,25	0,8	1,39	-	2,8 x 0,8	15.1.0001

Measurements A - H and dimensions in mm



TECHNICAL SUPPORT
YOUR VISION - OUR PROCESS





TECHNICAL SUPPORT

OUR CONSULTANCY AND SUPPORT SERVICES

ANALYSIS TO TARGETTED CONCEPT DEVELOPMENT

Long market expertise. Competent consultancy. Reliable solutions – even for the most complex press-fit challenges. At MTCONNECTIVITY we have it all!

You want to tap into our press-fit knowledge? You want us to design your ideal press-fit product, no matter what size, material, structure and functionality? We are happy to analyze your application needs, develop customized concepts, and implement the solution for you.

We don't stop where most consultants do:
We will take you the whole route from idea to implementation.
For your success!



YOUR PERSONAL CONSULTANT: MARIO TOLJ (SENIOR CONSULTANT)

Mario Tolj, born in 1973, graduate industrial engineer (Dipl. Wirtschaftsingenieur), trained technical drawer and IHK-certified designer. The father of three children speaks three languages and has registered several patents in the course of his business career. Mario Tolj is a certified IHK trainer and loves to transfer his knowledge to train people and implement new projects.

Before starting MTCONNECTIVITY, he was project manager at ERNI Electronics GmbH, where he was responsible for the 5 year sales, marketing and profit strategy.

Before that he was owner of imt engineering office, which became the imt engineering GmbH subsidiary of WE group, with Mario Tolj as managing director.



A GLANCE INTO OUR PORTFOLIO

APPLICATION: CENTRAL ELECTRICS/PRESS-FIT TECHNOLOGY

We offer specific press-fit and circuit board consultancy and training services for all relevant departments.

You can order the following services, either individually or as a package:

CIRCUIT BOARD TRAINING

Basics

Basic circuit board and manufacturing insights.

Expert insights

High current circuit board technology.

PRESS-FIT TRAINING

Basics

Basic insights into press-fit technology.

Expert insights

Advanced press-fit technology (basic press-fit training required for admission to advanced training).

MANAGEMENT CONSULTANCY

We advise and support your management in the development and implementation of central electrics strategies.

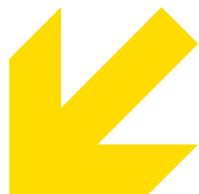
CONSULTANCY \ SUPPORT

We help you with:

- Development
- Layout
- Project management
- Product management
- Manufacturing
- Quality assurance
- Purchasing
- Sales

all relevant central electrics aspects (with a focus on press-fit technology).

SEND US YOUR
NON-BINDING
INQUIRY





WHITE PAPER HIGH VOLTAGE

DESIGN OF HIGH VOLTAGE ELECTRONICS BOARDS FOR AUTOMOTIVE APPLICATIONS

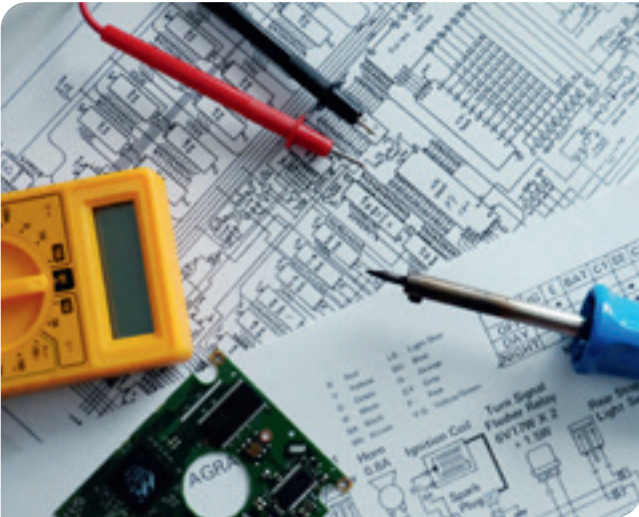
Motors and implements of next generation electric vehicles require a reliable power supply. High power management distribution puts considerable stress on the electronic boards. This white paper discusses design, components, structure, and implementation of high-performance/high voltage electronic boards, using a hydrogen fuel cell truck as an example.

Automotive circuit boards must be extremely robust, durable, and reliable. This is true for electric passenger cars, and even more so for electric trucks and offroad vehicles. The resulting central electric challenges must be addressed in the layout and development of circuit boards for high current applications. The electric components and their design in the electronics board play a major role in this context.

The central electric unit distributes power in the vehicle and ensures supply-line fusing. Circuit board designers require maximum circuit board flexibility to be able to integrate additional functionalities, e.g. more automation and artificial intelligence features and a growing number of advanced security and driver assistance systems. Circuit board design must be as cost effective and functional as possible, while ensuring highest quality standards and allowing for individual customization and affordability even in small and medium size batches. Designers also want to be able to develop high voltage circuit boards specifically for emerging niche markets, e.g. agricultural and construction machines, public vehicles etc.)

BLACK BOX SOLUTION

The central electric is often designed as a simple distribution board on circuit board technology, using copper rail technology and hard wiring. This construction, however, cannot easily be extended and may be subject to fracture in extreme shaking or vibration. For next generation high voltage applications the central electric can be expanded with a »black box« integrating switches, relays and other core products on the circuit board. This black box will not only manage power distribution, but will also bring intelligence to the circuit board.



CONNECTORS FOR HIGH POWER CIRCUIT BOARDS

Press-fit connectors enable direct mounting of the components on the circuit board without requiring soldering or additional cabling, thus ensuring long durability and robustness of the central electric even in the most demanding environmental conditions.

Advantages of a circuit board system solution

- Reduced cost
- Reduced assembly time
- Reduced complexity
- Reduced amount of product numbers in purchasing
- High reliability, reduced number of error sources
- Copper rail and press-fit technology (solder-free high power connections)
- Customized design
- Reduced space requirements
- Easy spare part access
- Reduced weight

Advantages of MTCON's press-fit connection

- 90 % lower electric resistance
- 25 % lower operating temperature
- Min. 80 N holding force per circuit board pin
- Gas-tight, corrosion-free connections
- No pin/soldering interface
- No soldering/PCB interface
- No heat during assembly
- Component assembly from both sides
- No thermal stress on the components

MTCON CIRCUIT BOARD EXPERTISE

In the Consulting business unit, MTCON supports circuit board manufacturers in the design of optimized central electric solutions for demanding automotive applications.



Central technology black box H2 vehicle



High-voltage battery pack



INDEX OF PART NUMBERS
POWER2PCB

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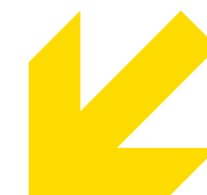
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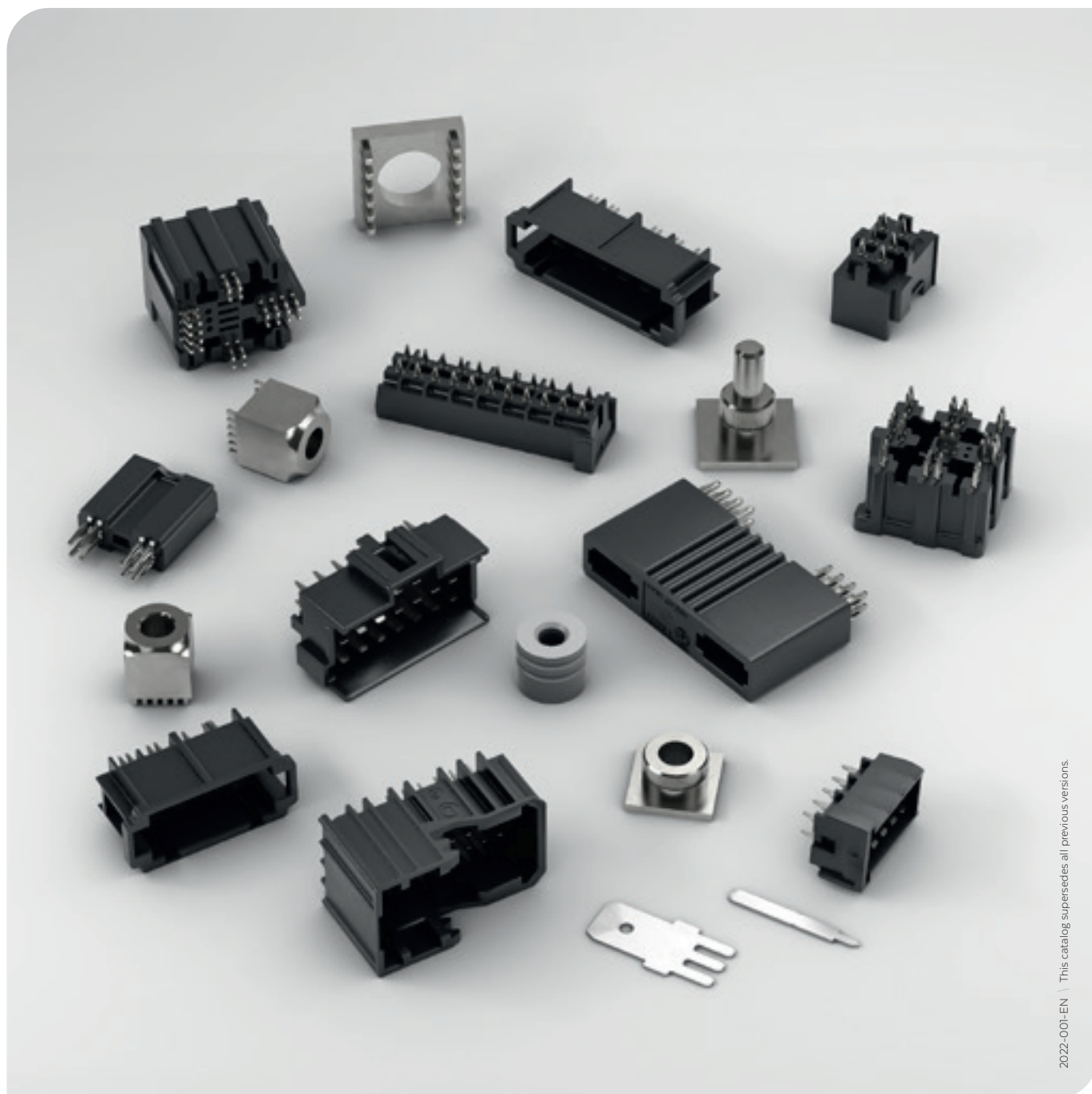
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