



MTCON
NECT
IVITY



POWER2PCB

PRODUCT CATALOGUE

POWER2PCB

WE BRING POWER TO YOUR PCB

POWER TOWER

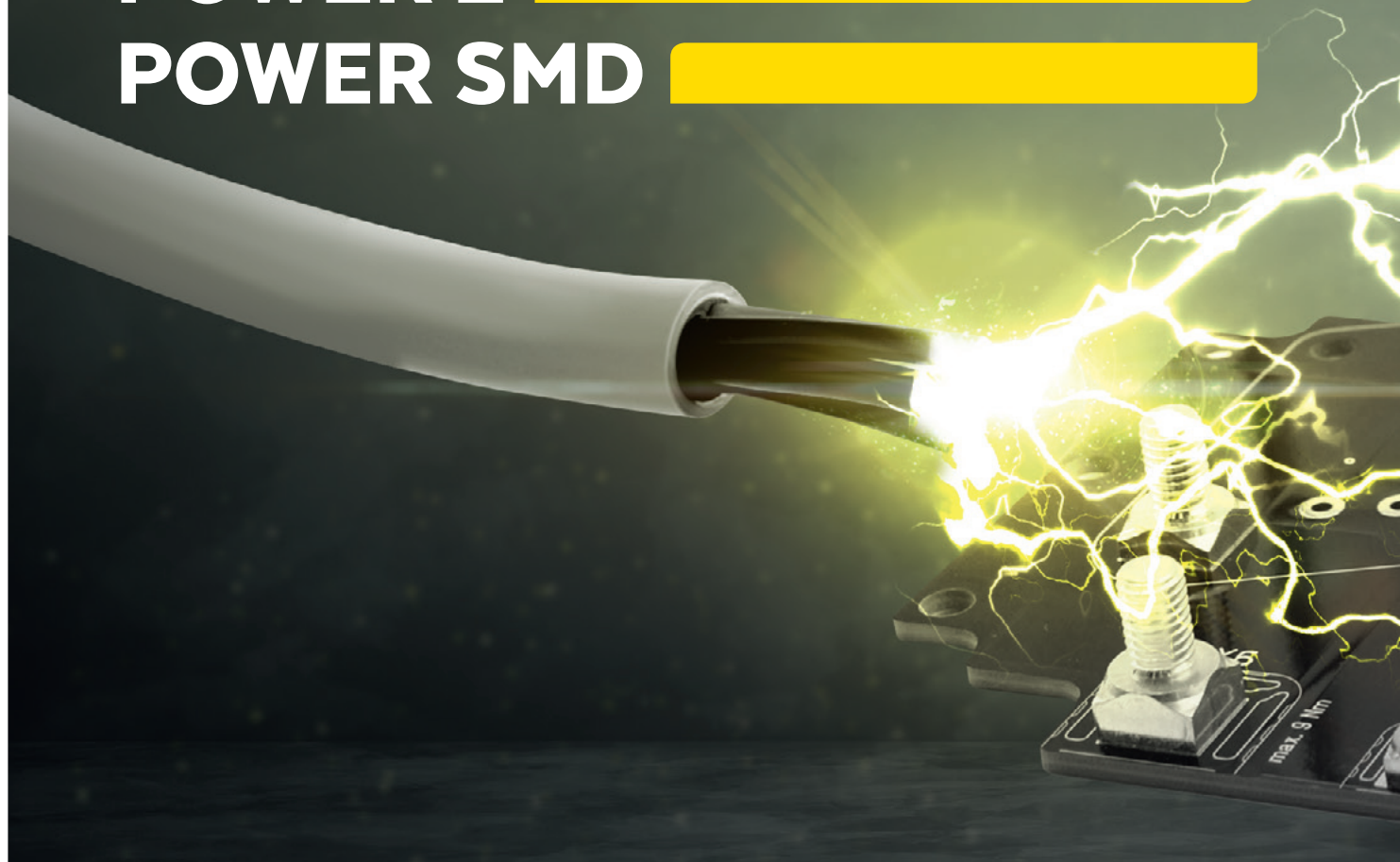
POWER SOCKET

POWER EDGE

POWER PROTECTOR

POWER 2

POWER SMD





WE ARE CERTIFIED ISO 9001:2015





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WE BRING POWER TO YOUR PCB

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CONCENTRATED POWER IN ALL AREAS

»Greatness comes from attention to detail.« A phrase that especially applies to press-fit technology. So we take great care with details, to ensure your end product gives the best results in all areas – and not least regarding reliability and longevity!

Whatever you're planning, MTCO supports you in making positive change. Professional, tailor-made and flexible – even beyond simple press-fit technology. See what we can do for you:

C FOR CONNECTOR

**C FOR CONTACT
(PCB/PIN)**

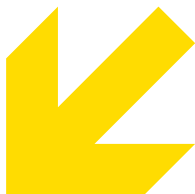
**C FOR CONTACT
(PERSON TO PERSON)**

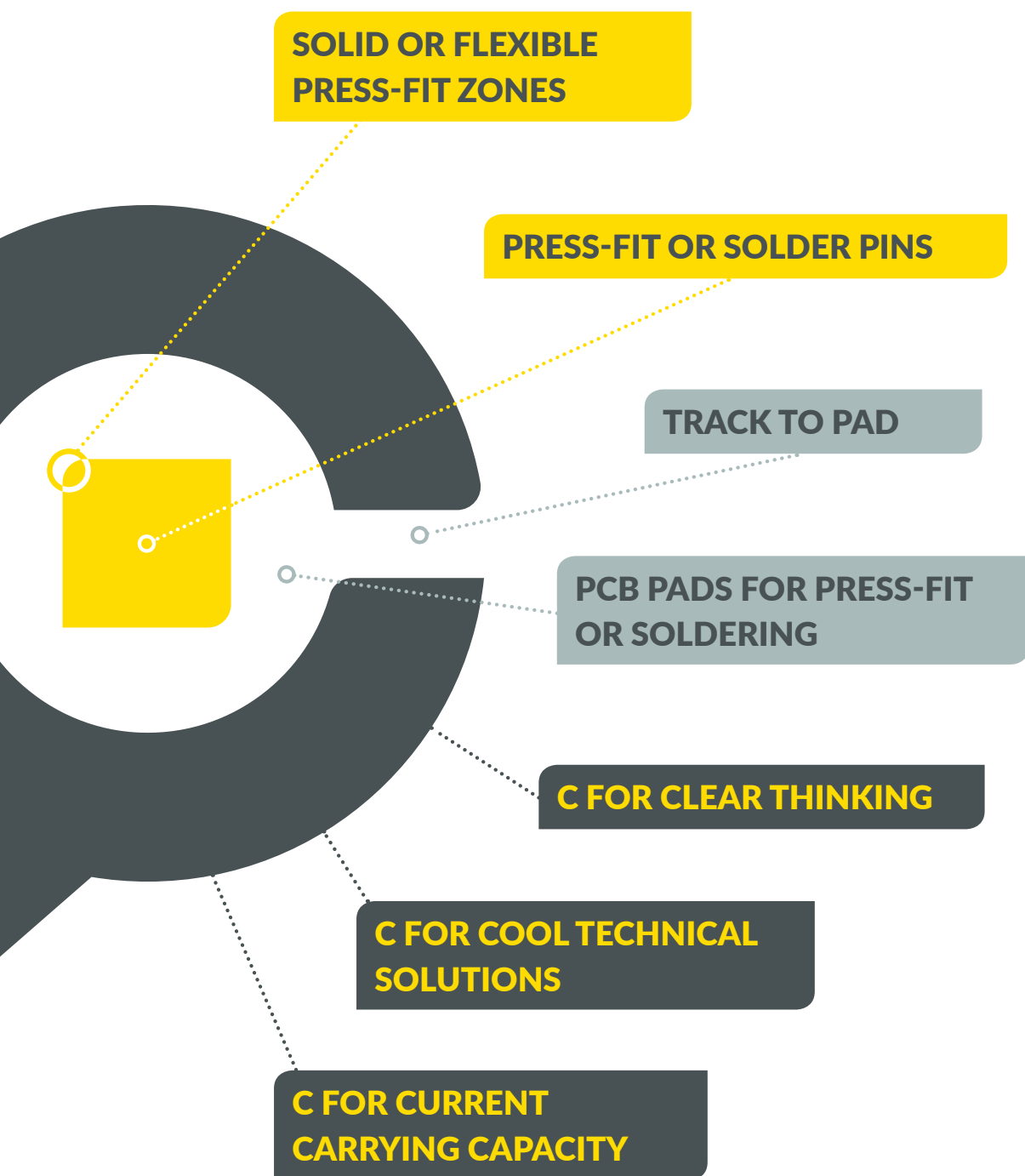
**C FOR CORRECT
DEFINITION**

**C FOR COMMUNICATION
(PERSON TO PERSON)**

C FOR CONSULTING

**DISCOVER
OUR
PRODUCTS**





EXAMPLE APPLICATIONS

TECHNICAL DATA



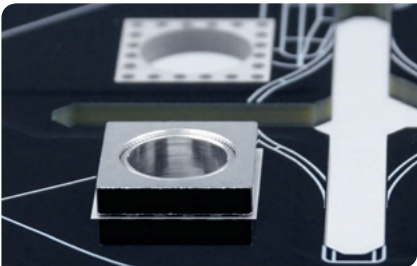
Contact protection around the power element, to prevent the cable lugs connected to the neighbouring power elements touching each other and causing a short circuit.



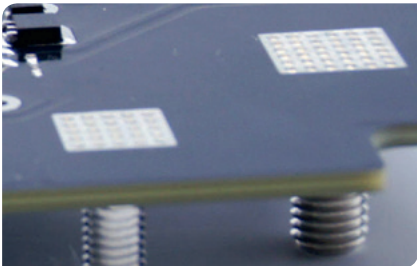
Two power elements with M8 pins at a set distance apart to mechanically and electrically connect a mega fuse to the circuit board.



Two angled power elements at a set distance apart to mechanically and electrically connect a high-current relay to the circuit board.



Two-part power element, with a socket/through hole as an attachment point to prevent mechanical forces 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-in 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



EXAMPLE APPLICATIONS

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

This gives the following maximum torque for each thread in brass (MS 63), according to DIN267 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

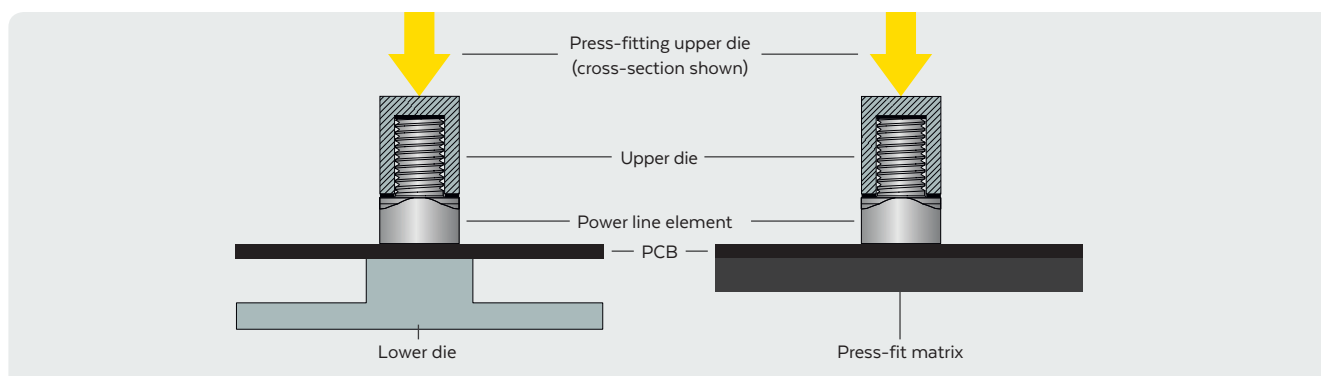
Measurements for M3 - M12 in Nm



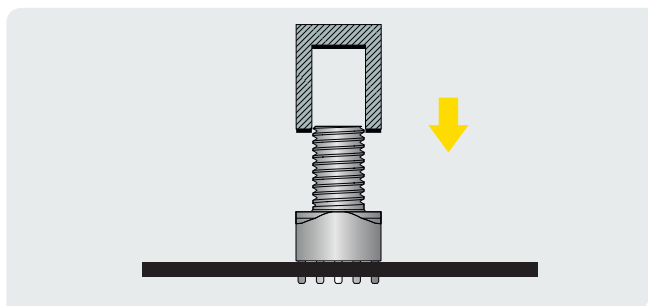
GENERAL GUIDELINES

PRESS-FITTING

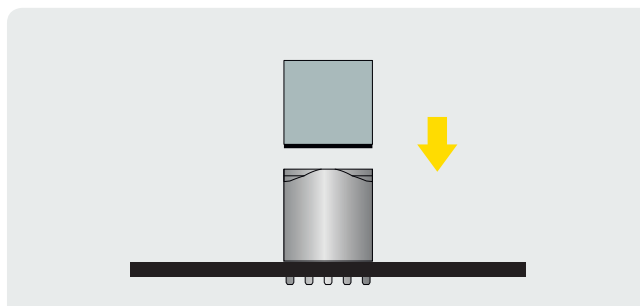
LOWER DIE OR PRESS-FIT MATRIX



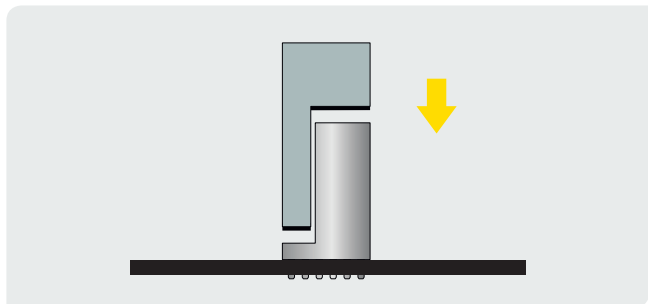
UPPER DIE



Tower power element with hollow upper die



Socket power element with flat upper die



Angled power element with L-composite upper die



HOLE SPECIFICATIONS

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



Drilling diameter
1.600 +/- 0.025 mm



Final diameter, tin
1.475 +/- 0.05 mm



Final diameter, HAL surface

1.450 +/- 0.05 mm

Copper - in hole:	min. 25 µm max. 80 µm
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Annular ring:	min. 125 µm
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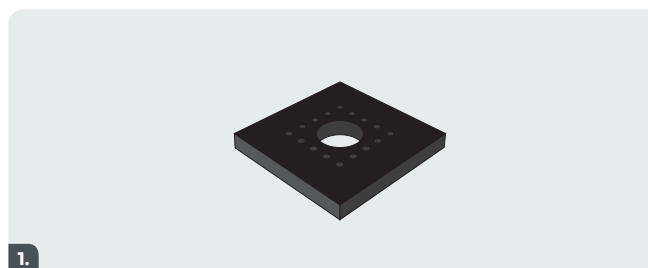


GENERAL GUIDELINES

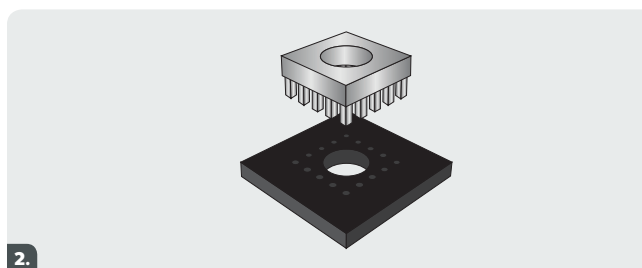
TWO-PIECE COMPONENTS

Why use two-part power line elements?

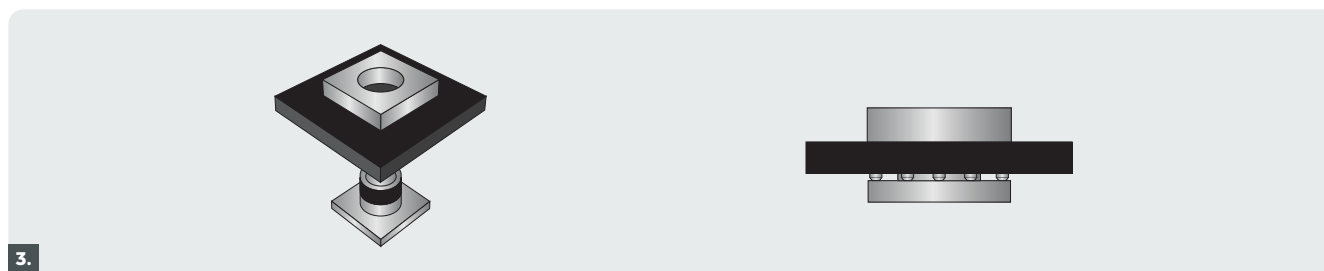
- Stronger mounting holes
- Ideal solution where clearance above PCB is limited
- Reduced mechanical stresses on the circuit board



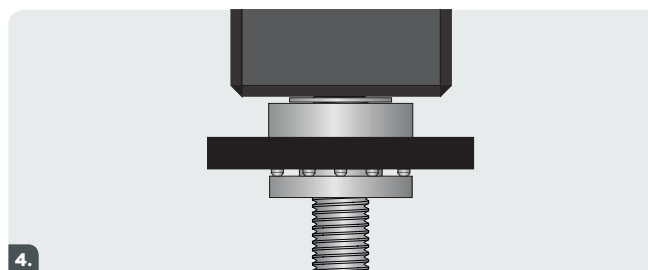
Choose a circuit board with suitable specifications from our catalogue.



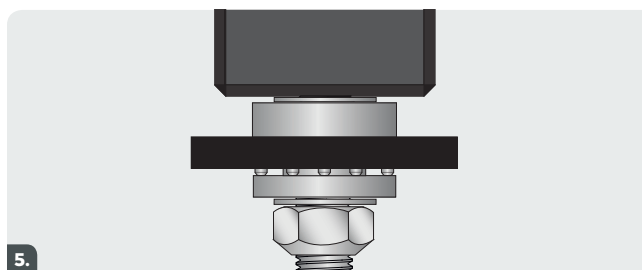
Press the base into the board from above.



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



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

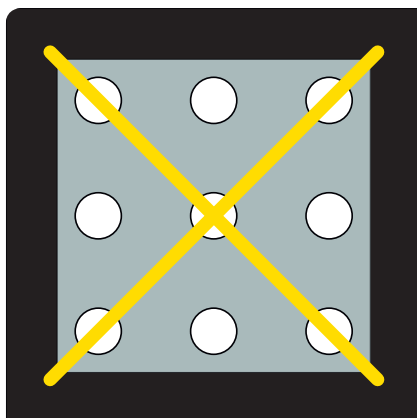
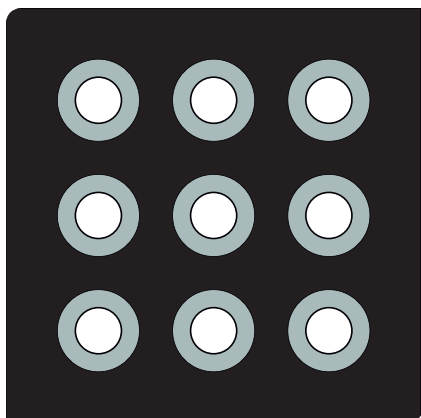


Secure the component underneath with a nut and a washer.



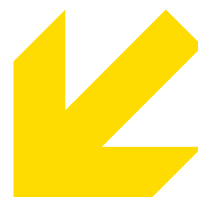
GENERAL GUIDELINES SOLDERING (THT)

- **In general:** standard press-fit components can be fitted by THT soldering, if needed.
- **In the ideal case:** surfaces are matt tinned on custom THT components to ensure an optimum result.
- 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.



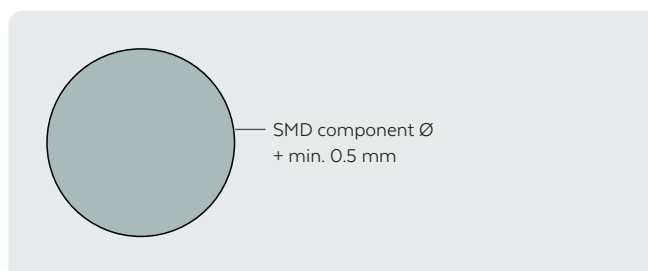
Please let us know when making an enquiry if you intend to solder our standard components. We aim to guarantee the solderability of our standard press-fit components for at least one year.

QUESTIONS?
WE ARE ALWAYS
HAPPY TO HELP!

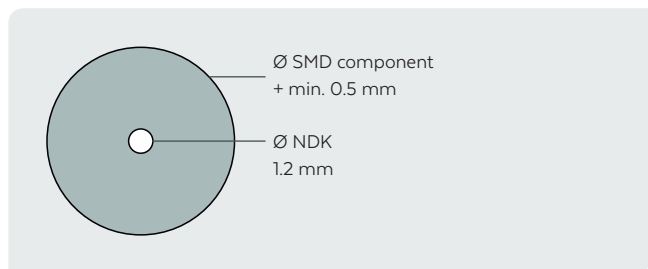


GENERAL GUIDELINES SOLDERING (SMT)

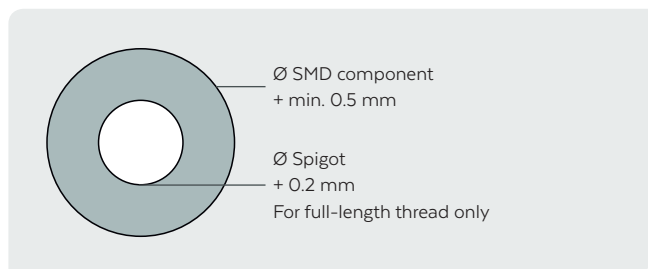
- Pad diameter min. 0.5 mm larger than component
- Vias all around the pad for greater current carrying capacity
- Solder paste thickness: 150 µm to 200 µm
- Please do not hesitate to ask us about suitable solder paste for your application



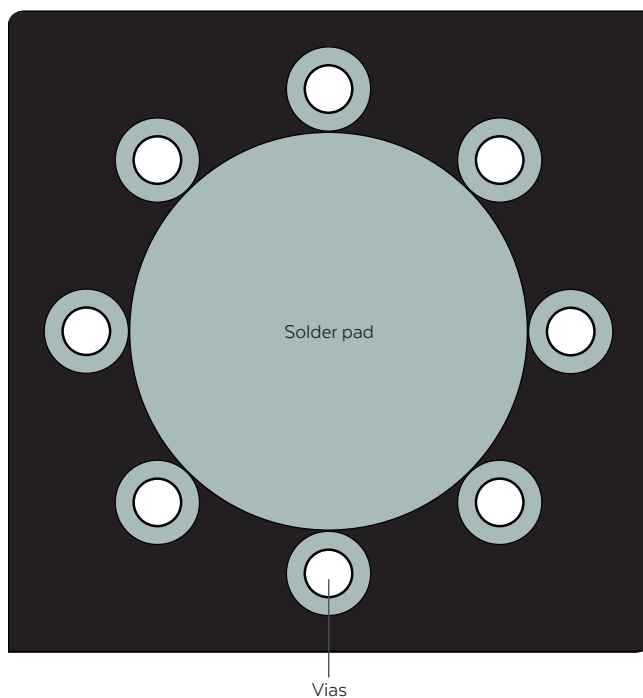
Solder pad



Solder pad with spigot



Solder pad for full-length internal thread





DERATING CURVE NOTES

1. Cable

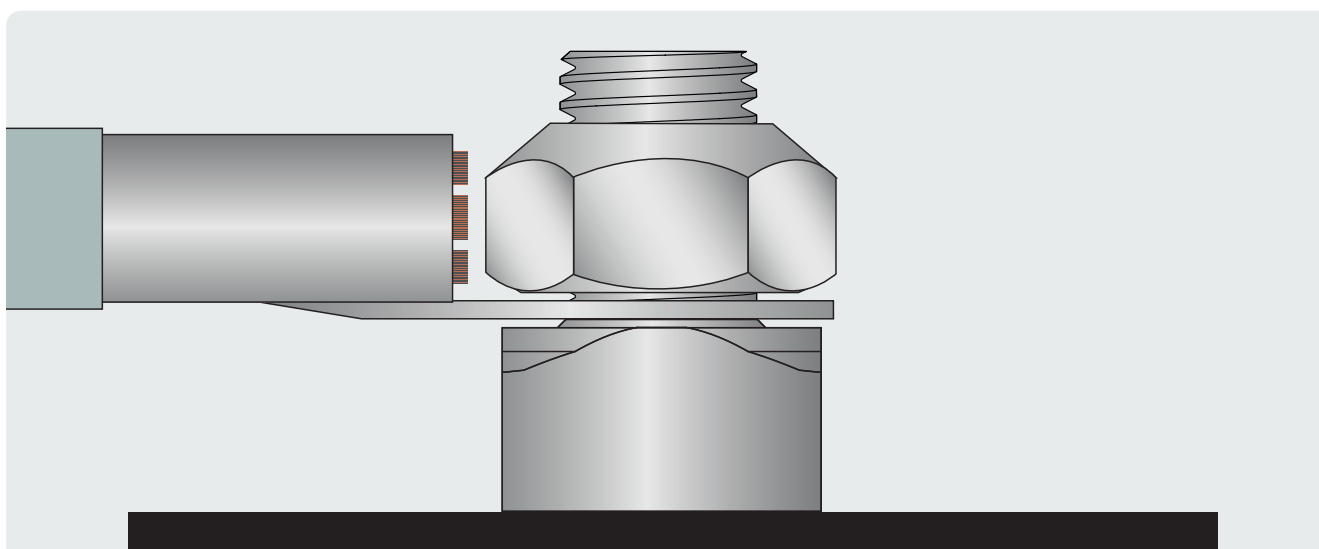
- Conductor cross-section
- Cable lug size
- Cable lug design

2. Power element

- Size (e.g. thread size)
- Type (e.g. number of pins/number of press-fit zones/mass of body)
- 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 curves shown are snapshots, and are subject to extreme variation (positive or negative) if, for example, the 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 you have chosen so that you can prove the current carrying capacity of your entire system. If your system fails this test (e.g. components, PCB or cables overheat), you need to 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. This means it isn't absolutely necessary to choose a larger power element if, for example, a cable proves to be too small in cross-section.

We are always happy to advise you, and we can also help with designing and carrying out the tests, if necessary.

DERATING CURVE

PINS ACROSS ENTIRE SURFACE / PINS IN TWO ROWS

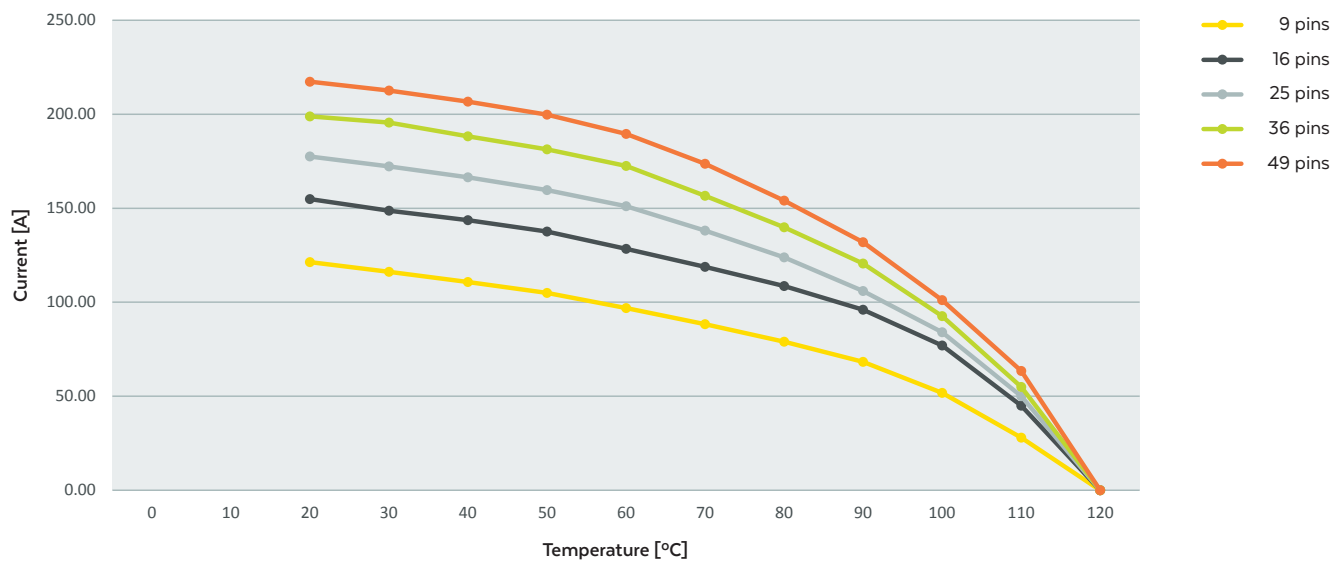
Derating curves are snapshots under test conditions!

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

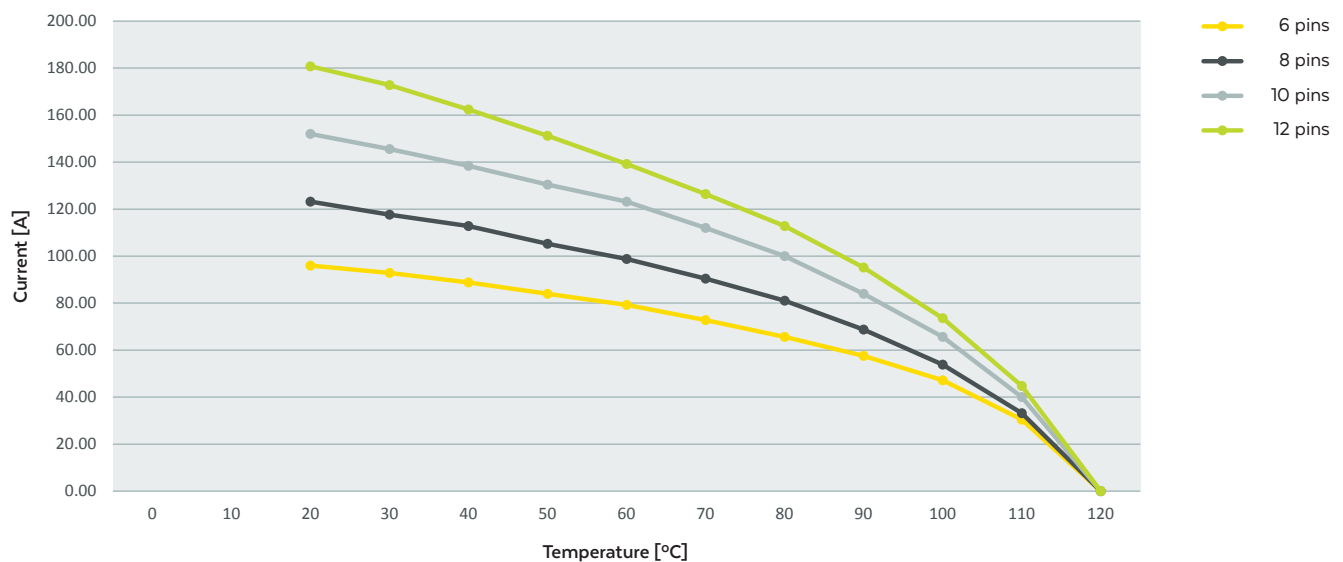
Current carrying capacity

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

Derating measurements for Power Line components with pins across entire surface



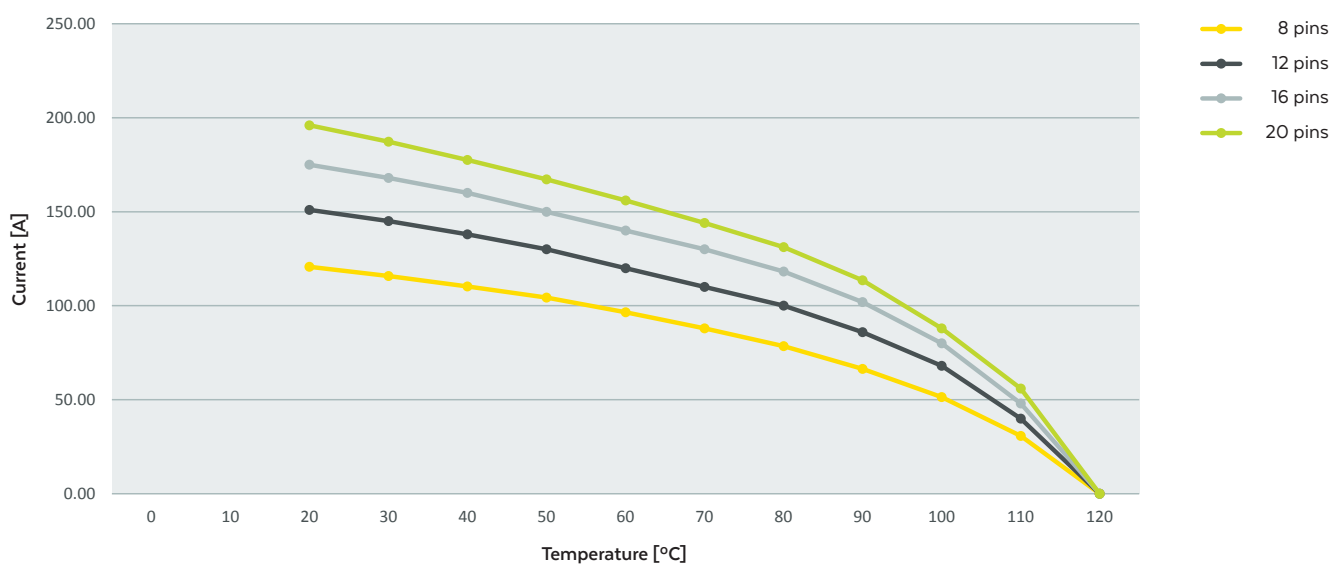
Derating measurements for Power Line components with pins in two rows



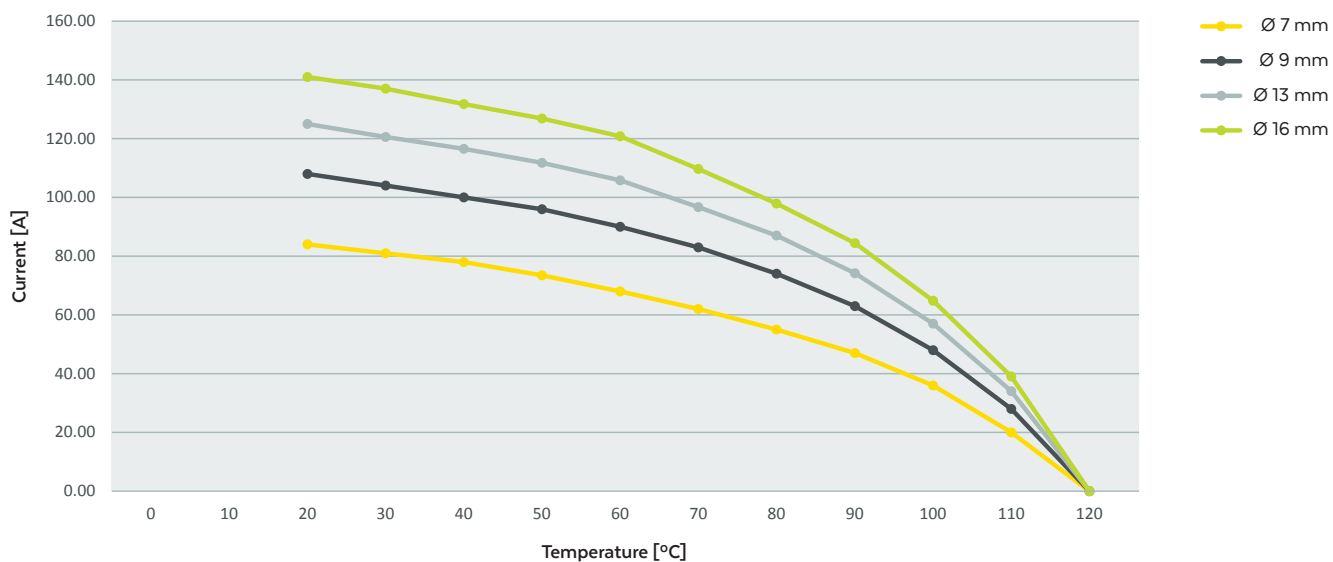


DERATING CURVE PINS AROUND EDGE / SMD

Derating measurements for Power Line components with pins around the edge



Derating measurements for Power Line SMD components



PACKAGING SYSTEMS FOR TRANSPORT

MTCON STANDARD-KLT

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

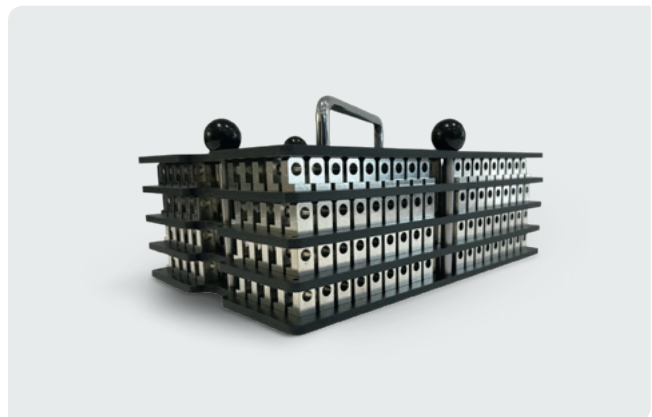
- Non-tilting stand and easy to stack
- Standardised sizes, optimized for euro-pallets
- According to VDA-standard
- As returnable packaging or for sale



MTCON SET-BOX

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

- Can be combined with the MTCON standard-KLT
- Circulation in return possible
- Item specific with safety adhesive and quality seal
- Especially suitable for product processing directly at the press-in machine



MTCON SAFE-PIN

The safe-pins were specially developed by us and are perfectly tailored to our power elements. They prevent the filigree pins from being damaged during storage or transport.

- Different sizes
- Suitable for our power elements
- The best possible protection in combination with our circulating packaging

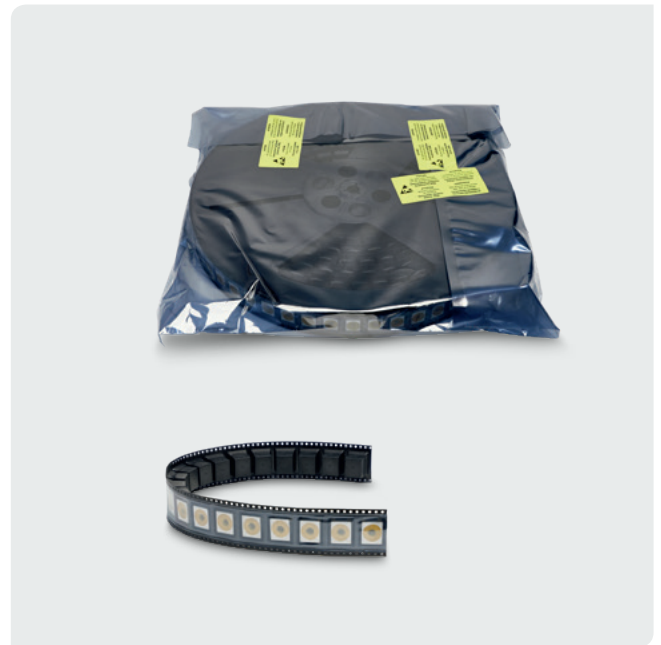




BLISTER TAPES

Blister tapes are precise supply systems. Sensitive Components such as electronic and SMD components are put into the custom-made packaging clean, dry and perfectly protected. The packaging system consists of a blister tape, the matching coil and a cover film. The individual components are individually adjusted and assembled for each customer by experts.

- Integration into the automatic manufacturing process
- Precise positioning in the assembly process
- Clean, position-oriented, automated placement and further processing.



COILS

Coils are ideal reusable transport systems. Generated for feeder machines, they are available in different widths and diameters. The coils tend to be made from anti-static polystyrene, according to the requirements. They are packed in stable cardboard boxes.

- Matched to common coil sizes
- Transport safe
- Dirt-resistant
- Stackable
- 100 % recyclable



OUR HIGHLIGHTS

FAST SERVICE PRODUCTION / LASERBRAND

FAST SERVICE PRODUCTION

Fast sample delivery according to your style. We support you in creating your individual power element. After technical remainder clarification and final component design, we will deliver your order to you from the third working day.

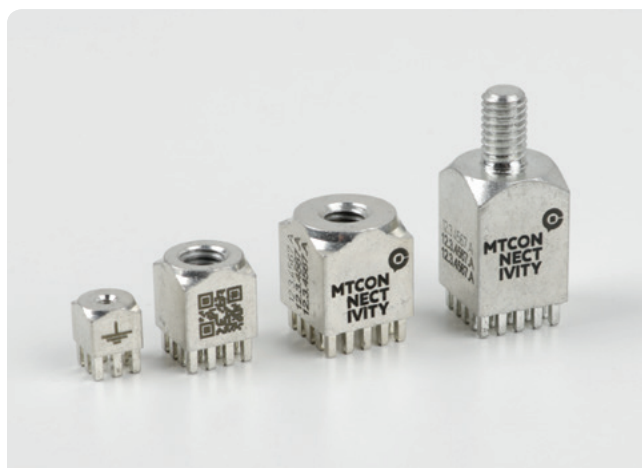
- From the 3rd day your individual, customized power element is with you
- Saves time and costs
- Ideal for design processes, troubleshooting, product optimization
- Durable, reliable, compact
- Supported by MTCOON experts and MTCOON technology know-how



YOUR MOTIF ON COMPONENTS

Individually we bring your motif, such as your logo, a lettering and more onto our MTCOON power elements. We can design the shape and size for you according to your wishes.

- Recognition value of your products
- Protection against the end customer
- Traceability
- Individuality





OUR HIGHLIGHTS

BLUEBRASS / MTCON SAMPLE BOX

REACH COMPLIANT MATERIAL

The new REACH regulation 2018 introduces further information obligations regarding lead. We have the right alternative in terms of production, conductivity and the need for lead-free products.

The application of these alloys makes possible long-term production security and planning security for you. All brass alloys of the BlueBrass family fulfill the demands of the EU directives with regard to freedom of lead.

We are available for questions and other information to you.

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



MTCON SAMPLE BOX

For our new customers: Gain an insight into our POWER2PCB diversity. In our sample box you will find 11 products from our range that you can take out and test. From our standard parts to press-in and soldering technology to the protection of our power elements you will find everything.

- Faster, more efficient design with existing patterns
- Saves time and costs
- Ideal for design processes, troubleshooting, product optimization

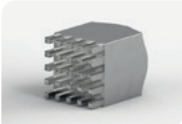
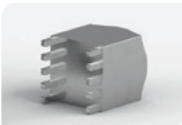
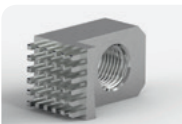
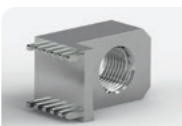
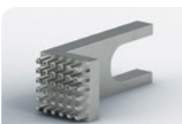


**DISCOVER OUR [REDACTED]
PRODUCTS. [REDACTED]
FROM POWER TOWER, [REDACTED]
POWER SOCKET, [REDACTED]
POWER EDGE AND [REDACTED]
POWER PROTECTOR [REDACTED]
TO POWER 2 [REDACTED]
AND POWER SMD [REDACTED]
IN MANY DIFFERENT [REDACTED]
DESIGNS. [REDACTED]**

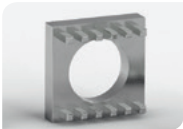
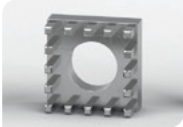
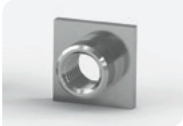
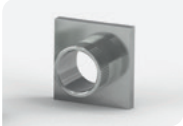


PRODUCT OVERVIEW

PRESS-FIT

	Number of pins	6	8	9	10	12	16	20	25	36	49
	POWER TOWER pins across entire base			M3 M4 M5			M4 M5		M6 M8	M10	M12
	POWER TOWER RS mates with Radsok® pins across entire base						Ø 3.2		Ø 6	Ø 8	
	POWER SOCKET pins across entire base			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 base			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 base								Ø 5.2	Ø 8.2 Ø 10.2	
	POWER PROTECTOR	Suitable for POWER TOWER M3, M4, M5, M6, M8, M10									



	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				

POWER TOWER

EXTERNAL THREAD, PRESS-FIT, PINS ACROSS ENTIRE BASE



PRODUCT SPECIFICATIONS

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

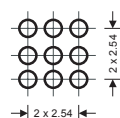
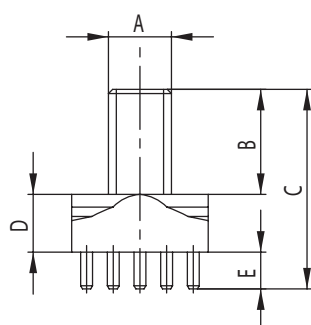
RoHS
COMPLIANT

MATERIAL INFORMATION

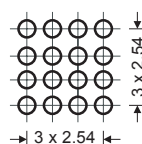
Option	Part number
BlueBrass	01.1.00XX.BB



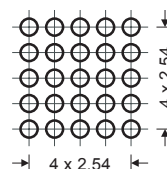
SCALE DRAWINGS



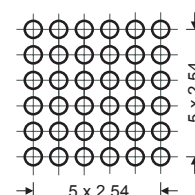
B1



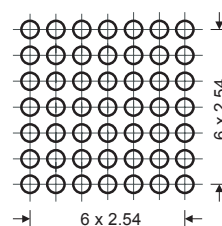
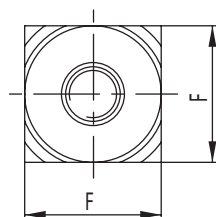
B2



B3



B4



B5

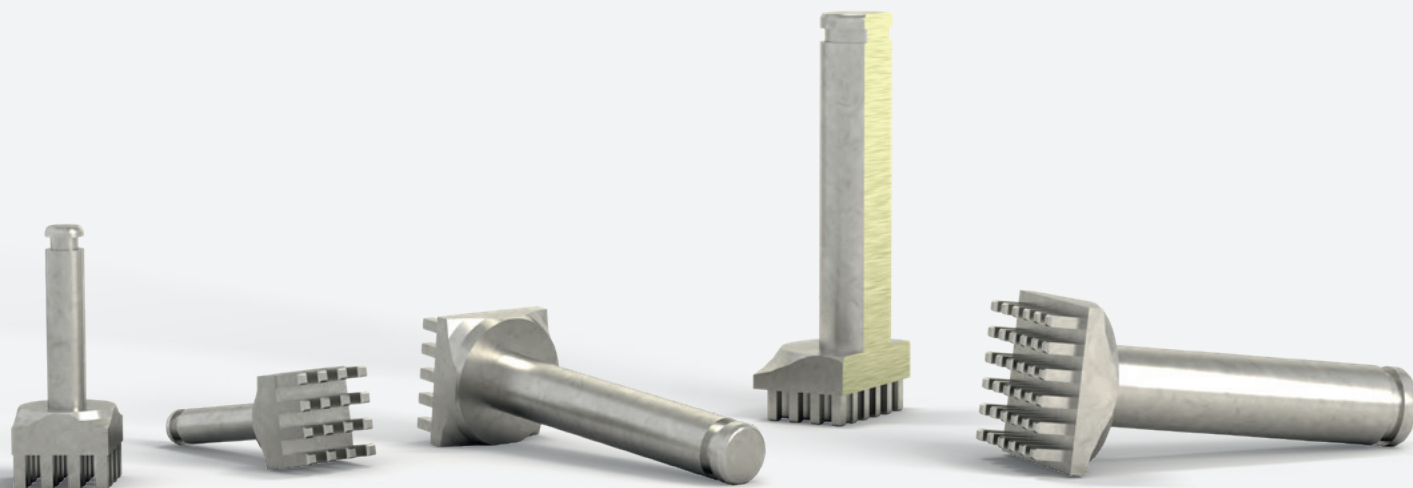
TECHNICAL DATA

A	B	C	D	E	F	No. of pins/ drilling pattern	Mass [g]	Part number
M3	5	11	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	22.5	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®, PRESS-FIT, PINS ACROSS ENTIRE BASE



PRODUCT SPECIFICATIONS

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

RoHS
COMPLIANT

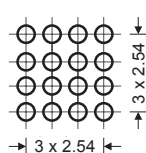
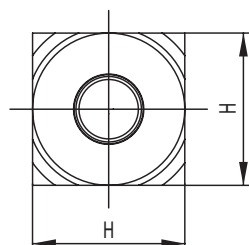
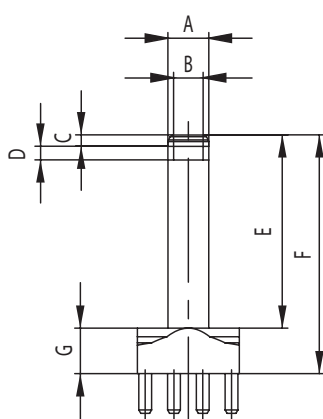
MATERIAL INFORMATION

Option	Part number
BlueBrass	01.7.00XX.BB

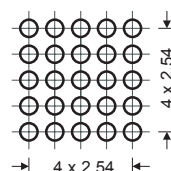
CO-ENGINEERED WITH **Amphenol**



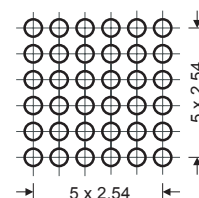
SCALE DRAWINGS



B2



B3



B4

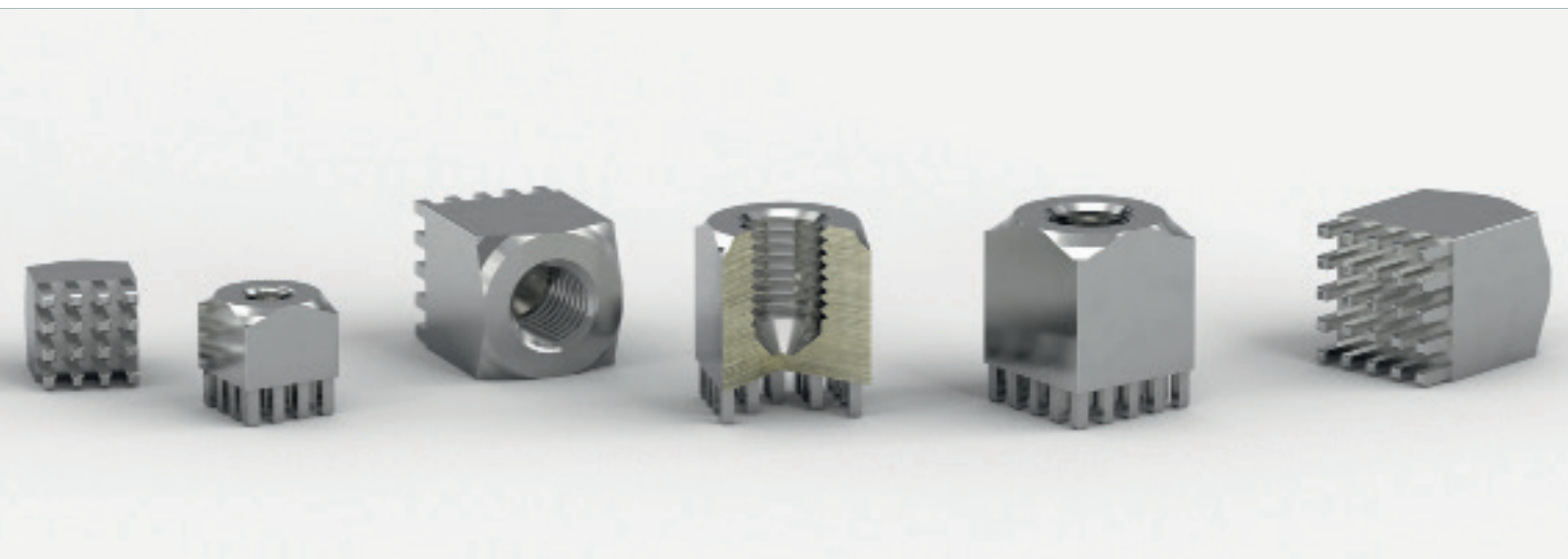
TECHNICAL DATA

A	B	C	D	E	F	G	H	No. of pins/ drilling pattern	Mass [g]	Part number
Ø 3.6	Ø 2.6	1	1.2	17	21	4	9	16/B2	4.63	01.7.0004
Ø 6	Ø 5	1.6	1.4	34.5	42	4	13	25/B3	14.39	01.7.0005
Ø 8	Ø 7	1.6	1.4	35	42.5	4	16	36/B4	24.22	01.7.0006

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

POWER SOCKET

SOCKET WITH INTERNAL THREAD, PRESS-FIT, PINS ACROSS ENTIRE BASE



PRODUCT SPECIFICATIONS

- ✚ High-current PCB connection
- ✚ UNC thread or custom alterations on request
- ✚ For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- ✚ RoHS compliant

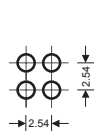
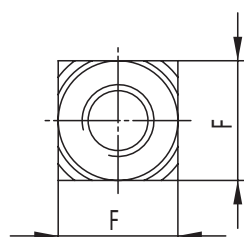
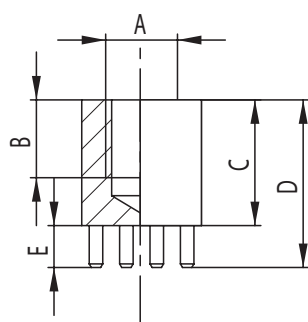


MATERIAL INFORMATION

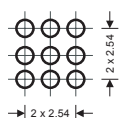
Option	Part number
BlueBrass	02.1.00XX.BB



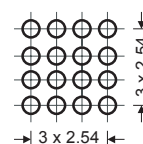
SCALE DRAWINGS



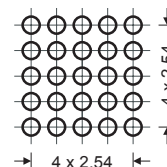
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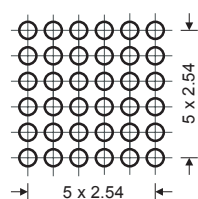
B1



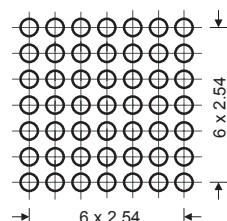
B2



B3



B4



B5

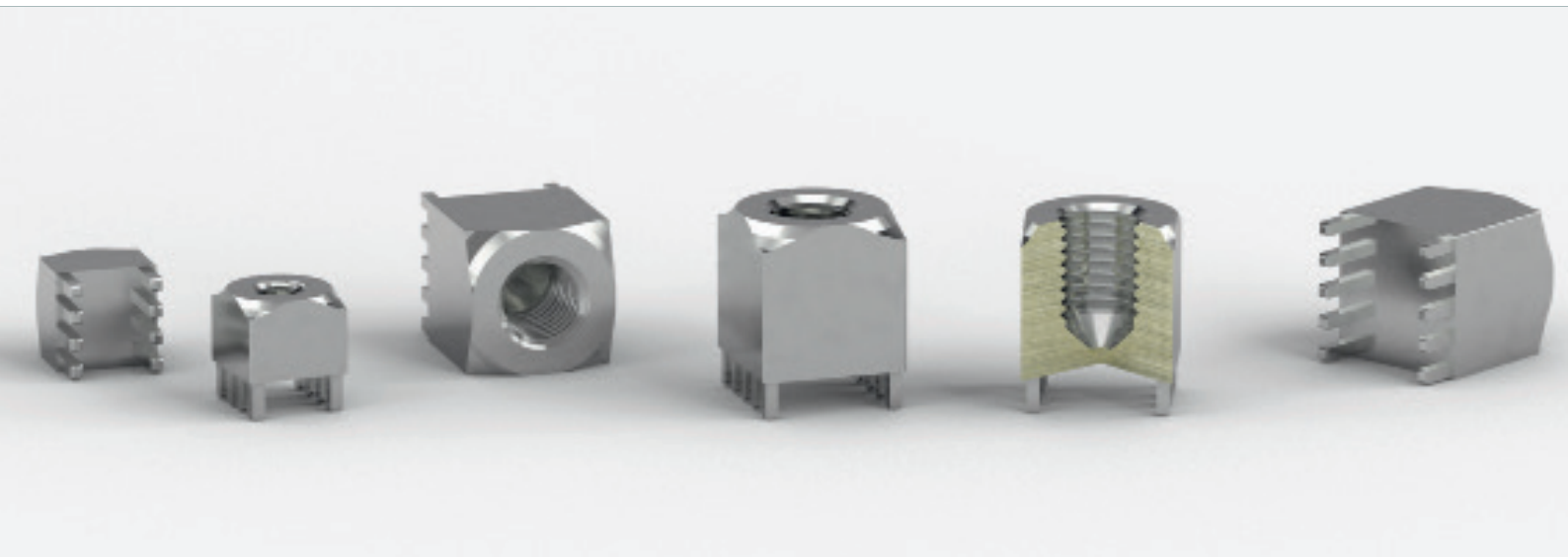
TECHNICAL DATA

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



PRODUCT SPECIFICATIONS

- ✚ High-current PCB connection
- ✚ UNC thread or custom alterations on request
- ✚ For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- ✚ For use where smaller press-in forces are required
- ✚ For use in layouts which do not allow pins all across the base
- ✚ RoHS compliant

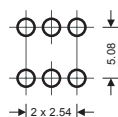
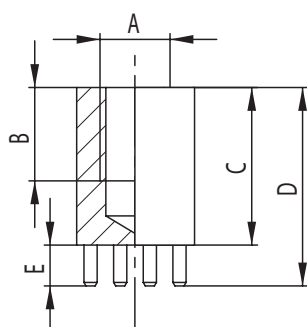


MATERIAL INFORMATION

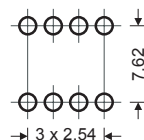
Option	Part number
BlueBrass	02.2.00XX.BB



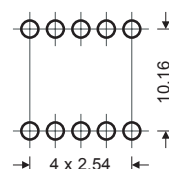
SCALE DRAWINGS



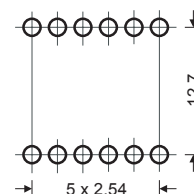
B1



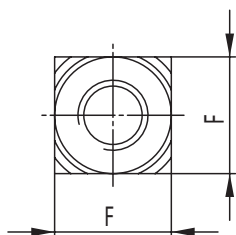
B2



B3



B4



TECHNICAL DATA

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



PRODUCT SPECIFICATIONS

- ✚ High-current PCB connection
- ✚ UNC thread or custom alterations on request
- ✚ For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- ✚ For use where smaller press-in forces are required
- ✚ For use in layouts which do not allow pins all across the base
- ✚ RoHS compliant

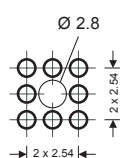
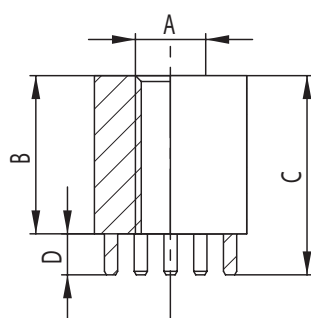


MATERIAL INFORMATION

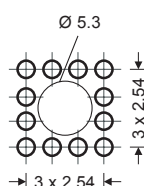
Option	Part number
BlueBrass	02.3.00XX.BB



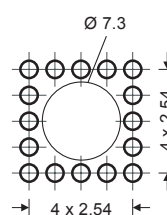
SCALE DRAWINGS



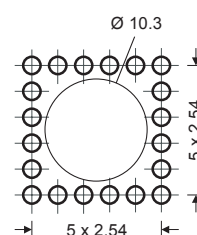
B1



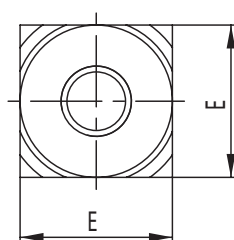
B2



B3



B4

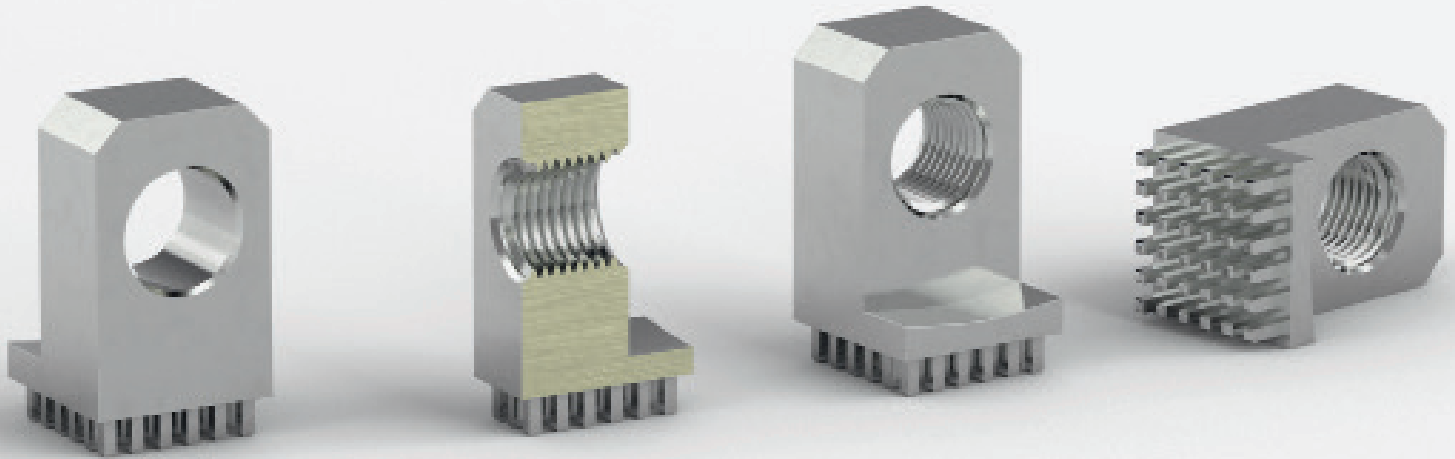


TECHNICAL DATA

A	B	C	D	E	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, PRESS-FIT, PINS ACROSS ENTIRE BASE



PRODUCT SPECIFICATIONS

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

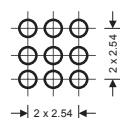
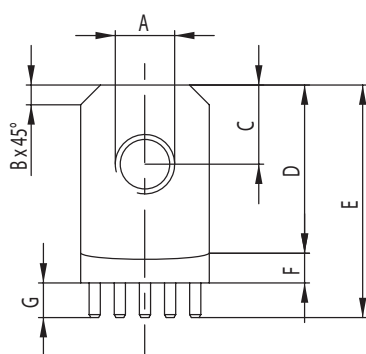


MATERIAL INFORMATION

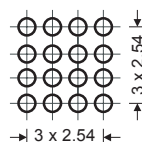
Option	Part number
BlueBrass	03.1.00XX.BB



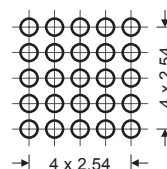
SCALE DRAWINGS



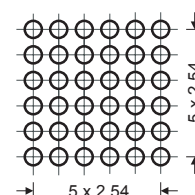
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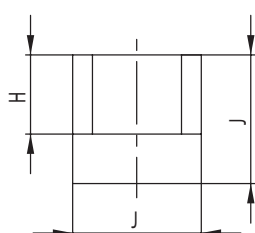
B2



B3



B4

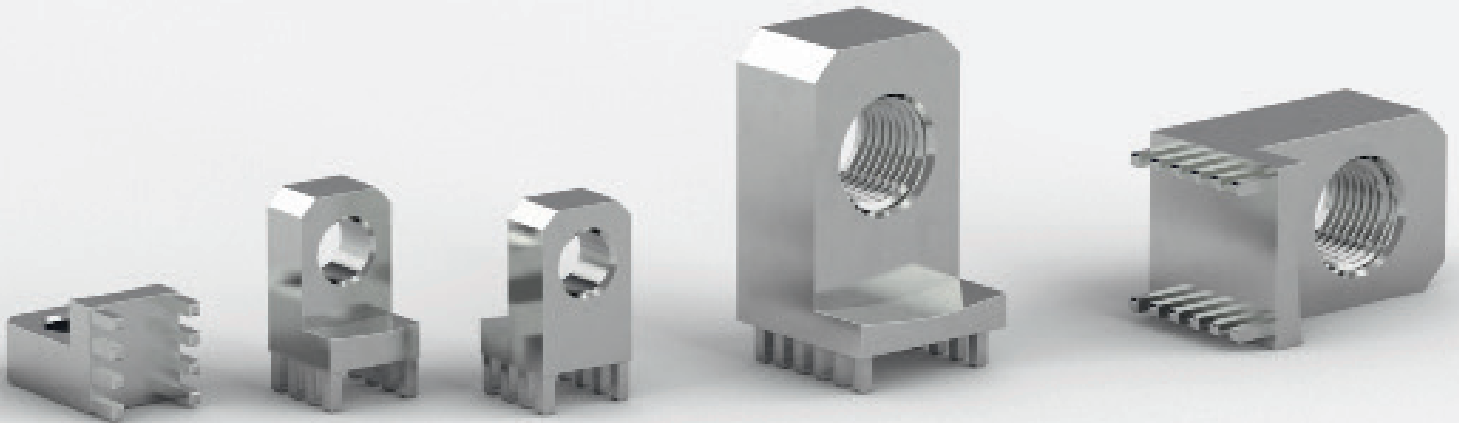


TECHNICAL DATA

A	B	C	D	E	F	G	H	J	No. of pins/ drilling pattern	Mass [g]	Part number
M3	1	5	11	17.5	3	3.5	4	7	9/B1	3.98	031.0001
M4	1.5	5	11	17.5	3	3.5	5	9	16/B2	6.38	031.0002
M5	1.5	5	11	17.5	3	3.5	5	9	16/B2	6.15	031.0003
M6	2	8	17	23.5	3	3.5	8	13	25/B3	18.57	031.0004
M8	2	8	22	23.5	3	3.5	8	13	25/B3	17.44	031.0005
M10	2.5	10	28.5	28.5	3	3.5	10	16	36/B4	32.28	031.0006
Ø 3.2	1	5	11	17.5	3	3.5	4	7	9/B1	3.88	031.0007
Ø 4.2	1.5	5	11	17.5	3	3.5	5	9	16/B2	6.15	031.0008
Ø 5.2	1.5	5	11	17.5	3	3.5	5	9	16/B2	5.84	031.0009
Ø 6.2	2	8	17	23.5	3	3.5	8	13	25/B3	17.86	031.0010
Ø 8.2	2	8	22	23.5	3	3.5	8	13	25/B3	16.32	031.0011
Ø 10.2	2.5	10	28.5	28.5	3	3.5	10	16	36/B4	30.16	031.00120

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

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



PRODUCT SPECIFICATIONS

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

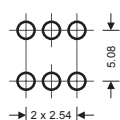
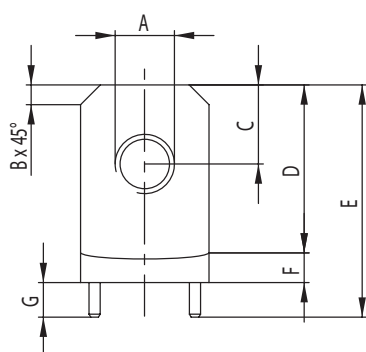


MATERIAL INFORMATION

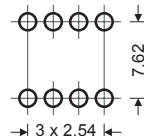
Option	Part number
BlueBrass	03.2.00XX.BB



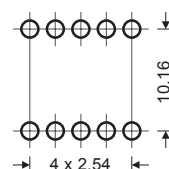
SCALE DRAWINGS



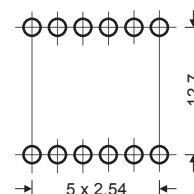
B1



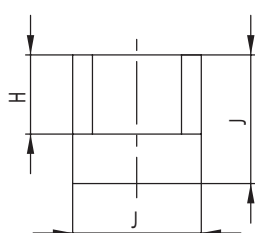
B2



B3



B4



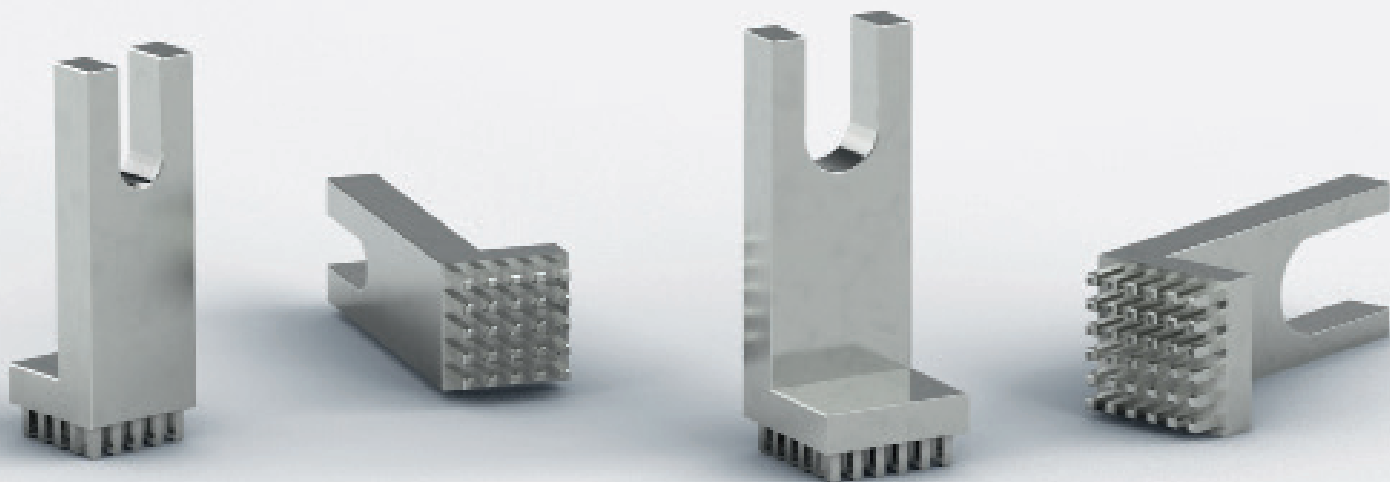
TECHNICAL DATA

A	B	C	D	E	F	G	H	J	No. of pins/ drilling pattern	Mass [g]	Part number
M3	1	5	11	17.5	3	3.5	4	7	6/B1	3.87	03.2.0001
M4	1.5	5	11	17.5	3	3.5	5	9	8/B2	6.08	03.2.0002
M5	1.5	5	11	17.5	3	3.5	5	9	8/B2	5.86	03.2.0003
M6	2	8	17	23.5	3	3.5	8	13	10/B3	18.02	03.2.0004
M8	2	8	17	23.5	3	3.5	8	13	10/B3	16.89	03.2.0005
M10	2.5	10	22	28.5	3	3.5	10	16	12/B4	31.39	03.2.0006
Ø 3.2	1	5	11	17.5	3	3.5	4	7	6/B1	3.76	03.2.0007
Ø 4.2	1.5	5	11	17.5	3	3.5	5	9	8/B2	5.86	03.2.0008
Ø 5.2	1.5	5	11	17.5	3	3.5	5	9	8/B2	5.55	03.2.0009
Ø 6.2	2	8	17	23.5	3	3.5	8	13	10/B3	17.3	03.2.0010
Ø 8.2	2	8	22	23.5	3	3.5	8	13	10/B3	15.77	03.2.0011
Ø 10.2	2.5	10	28.5	28.5	3	3.5	10	16	12/B4	29.28	03.2.0012

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

POWER EDGE

U-SHAPE, ANGLED, PRESS-FIT, PINS ACROSS ENTIRE BASE



PRODUCT SPECIFICATIONS

- ✚ 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 request
- ✚ Can be used for mounting on housings etc.
- ✚ For connecting components such as high-current relays, cable lugs and more
- ✚ RoHS compliant

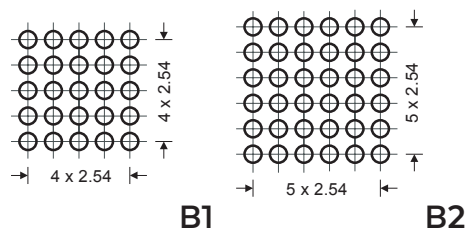
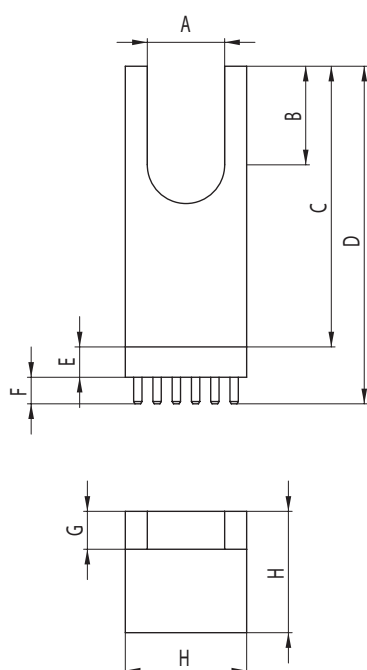
RoHS
COMPLIANT

MATERIAL INFORMATION

Option	Part number
BlueBrass	03.1.00XX.BB



SCALE DRAWINGS



TECHNICAL DATA

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

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

POWER PROTECTOR

SPECIALLY DESIGNED FOR POWER TOWER ELEMENTS



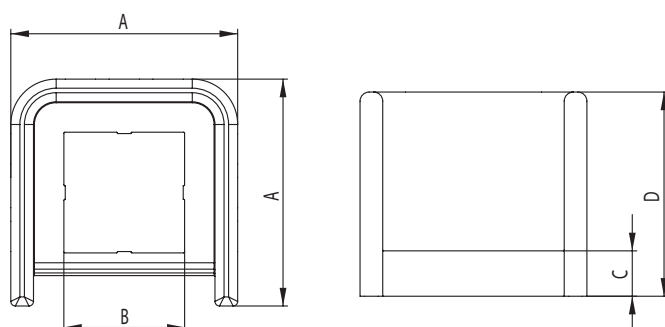
PRODUCT SPECIFICATIONS

- Specifically for mounting on POWER TOWER elements
- Prevents short circuits with nearby components
- Protects against contact and twisting
- Enables smaller distances between two power elements in a layout
- RoHS compliant
- REACH compliant





SCALE DRAWINGS



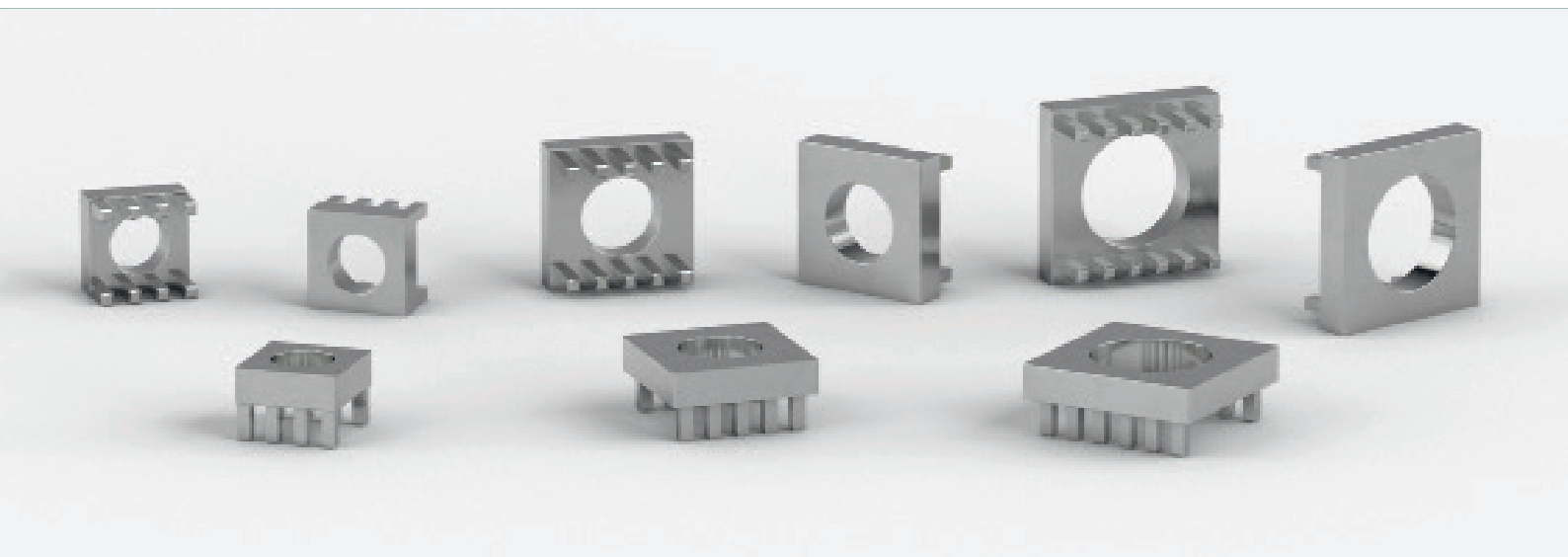
TECHNICAL DATA

A	B	D	E	For use with	Part number
16	7	2	9.5	01.1.0001, 01.1.0012, 01.1.0018	01.0.0001
18	9	2.5	14.5	01.1.0002, 01.1.0003	01.0.0002
25	13	5	22.5	01.1.0004, 01.1.0005	01.0.0003
30	16	7	26	01.1.0006	01.0.0004

Measurements A - D in mm

POWER 2 GROUND

TWO-PIECE, BASE BODY, PINS IN TWO ROWS



PRODUCT SPECIFICATIONS

- 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

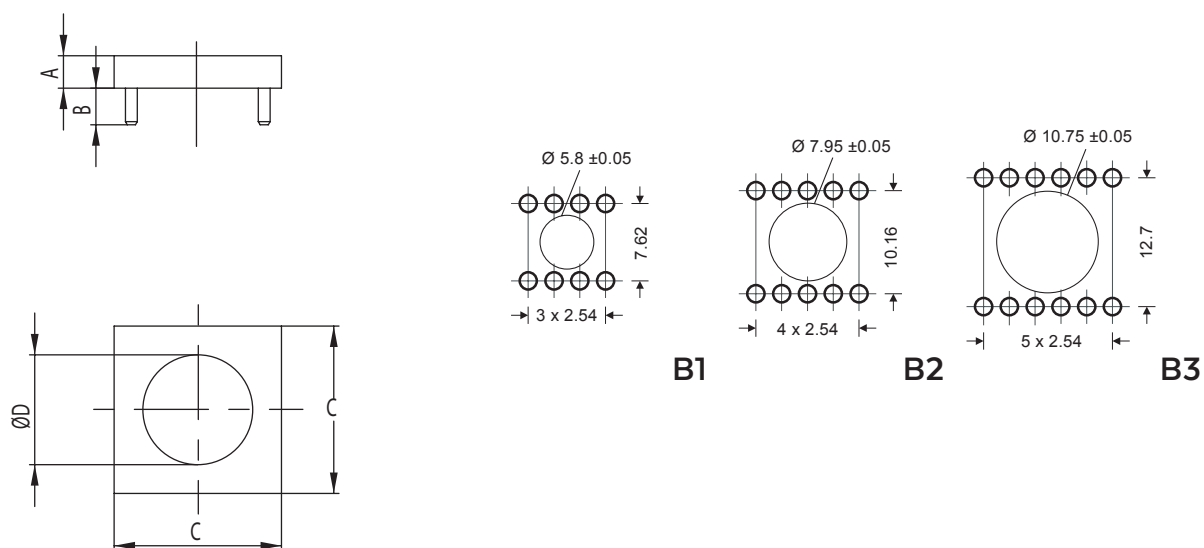


MATERIAL INFORMATION

Option	Part number
BlueBrass	09.1.00XX.BB



SCALE DRAWINGS



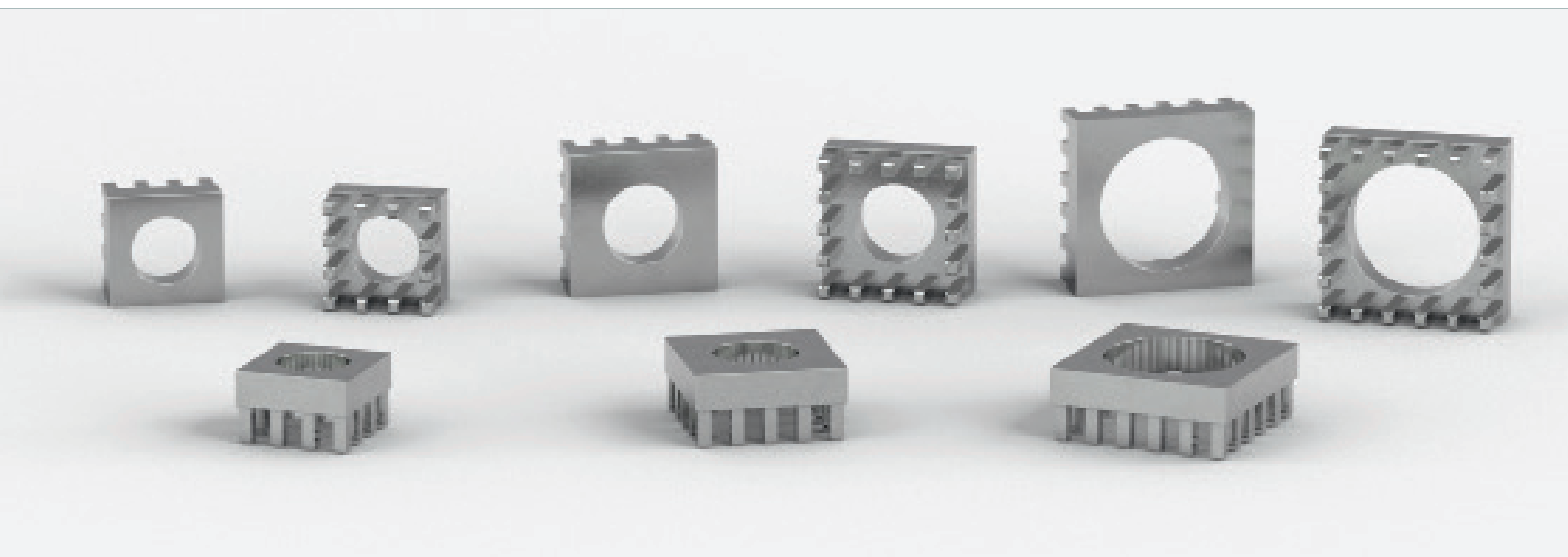
TECHNICAL DATA

A	B	C	D	No. of pins/ drilling pattern	Mass [g]	Part number
3.1	3.5	9	5.5	8/B1	1.8	09.1.0001
3.1	3.5	13	7.3	10/B2	3.7	09.1.0002
3.1	3.5	16	10.5	12/B3	4.89	09.1.0003
3.1	3.5	16	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 SPECIFICATIONS

- 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

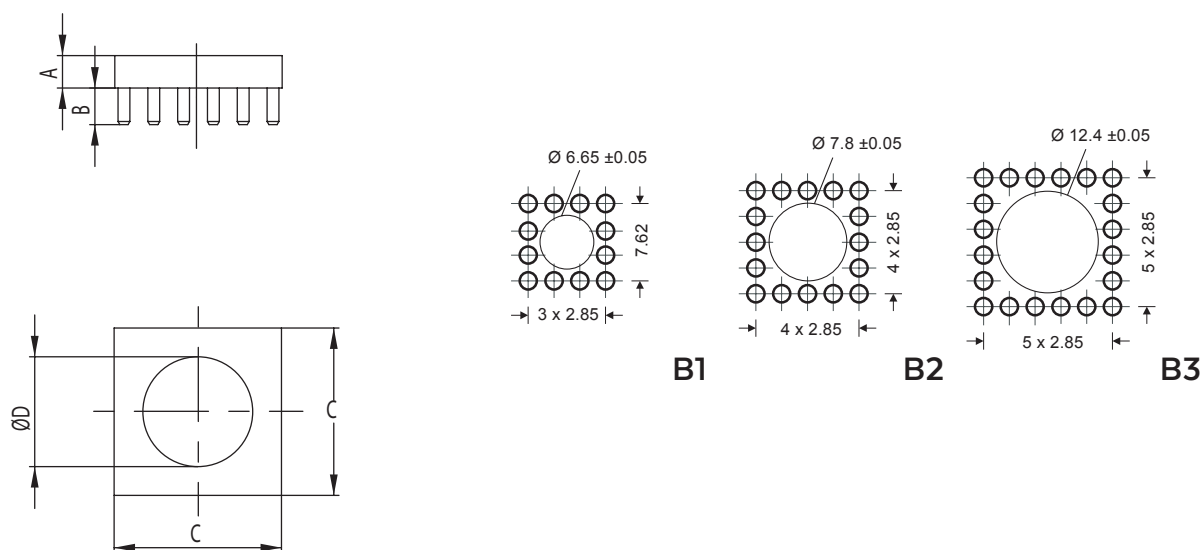


MATERIAL INFORMATION

Option	Part number
BlueBrass	09.2.00XX.BB



SCALE DRAWINGS



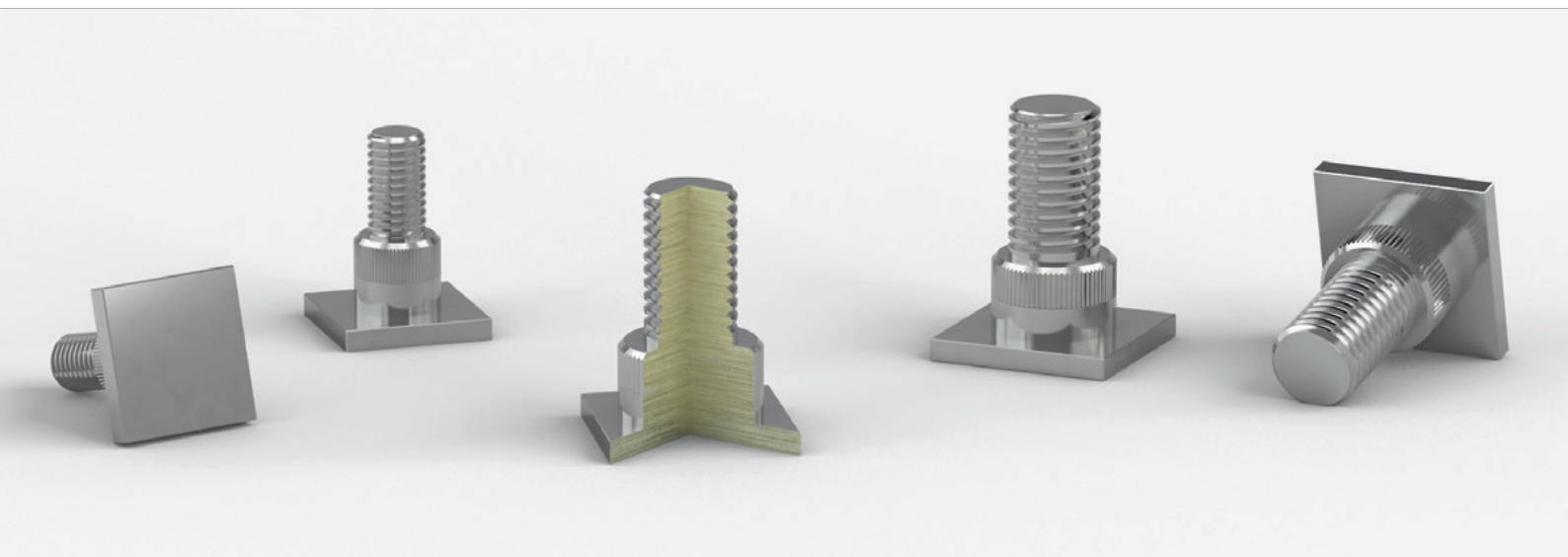
TECHNICAL DATA

A	B	C	D	No. of pins/ drilling pattern	Mass [g]	Part number
3.1	3.5	10	6.2	12/B1	2.27	09.2.0001
3.1	3.5	13	7.3	16/B2	3.93	09.2.0002
3.1	3.5	16	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



PRODUCT SPECIFICATIONS

- For press-fitting to a base body
- UNC thread or custom alterations on request
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant

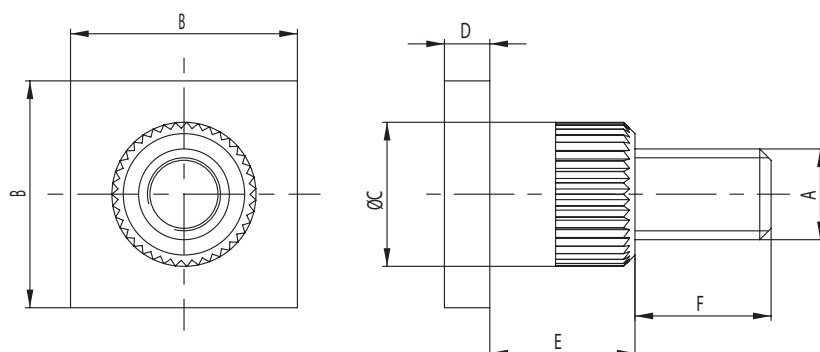


MATERIAL INFORMATION

Option	Part number
BlueBrass	09.3.00XX.BB



SCALE DRAWINGS



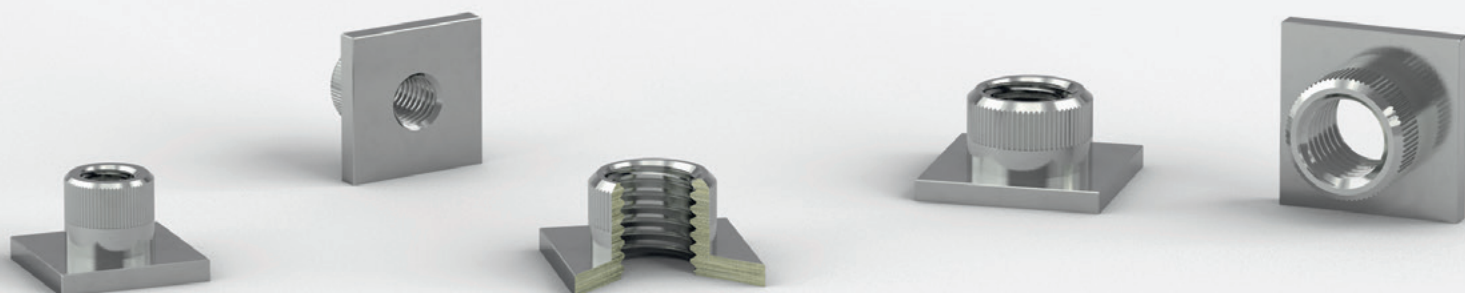
TECHNICAL DATA

A	B	C	D	E	F	Mass [g]	Matching base body	Part number
M3	9	5.6	2	6.4	5	2.91	09.1.0001	09.3.0001
M3	10	6.35	2	6.4	6	3.67	09.2.0001	09.3.0002
M3	9	5.6	2	6.4	6	3.25	09.1.0001	09.3.0003
M4	10	6.35	2	6.4	6	3.95	09.2.0001	09.3.0004
M5	13	7.45	2	6.4	8	6.43	09.1.0002, 09.2.0002	09.3.0005
M5	10	6.35	2	6.4	9	4.8	09.2.0001	09.3.0006
M6	13	7.45	2	6.4	10	7.49	09.1.0002, 09.2.0002	09.3.0007
M8	16	12.15	2	6.4	13	15.95	09.2.0003	09.3.0008
M8	16	10.65	2	6.4	13	14.51	09.1.0003	09.3.0009
M4	13	7.45	2	6.4	8	5.96	09.1.0002, 09.2.0002	09.3.0010
M10	16	12.15	2	6.4	13	19.05	09.2.0003	09.3.0011
M8	16	10	2	6.4	13	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



PRODUCT SPECIFICATIONS

- For press-fitting to a base body
- UNC thread or custom alterations on request
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant

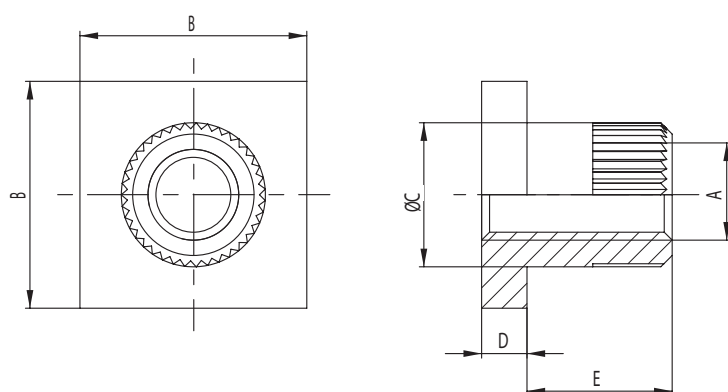
RoHS
COMPLIANT

MATERIAL INFORMATION

Option	Part number
BlueBrass	09.4.00XX.BB



SCALE DRAWINGS

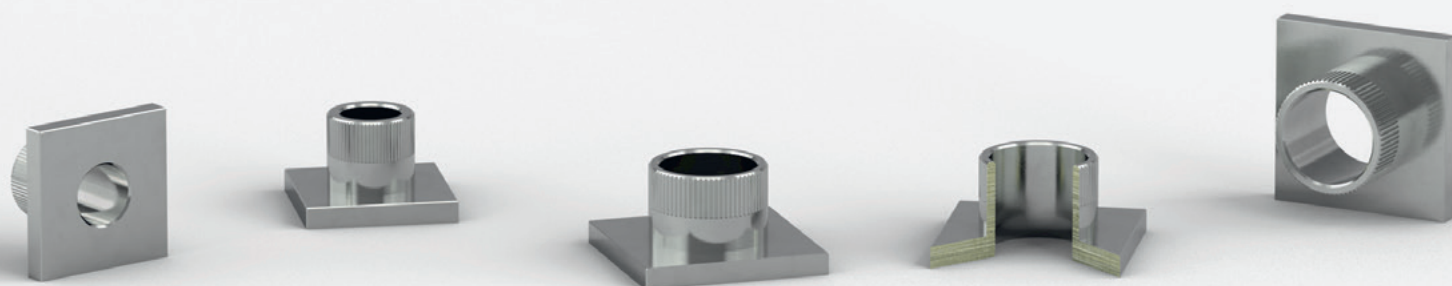


TECHNICAL DATA

A	B	C	D	E	Mass [g]	Matching base body	Part number
M3	9	5.65	2	6.4	2.31	09.1.0001	09.4.0001
M3	10	6.35	2	6.4	2.98	09.2.0001	09.4.0002
M4	9	5.65	2	6.4	2.03	09.1.0001	09.4.0003
M4	10	6.35	2	6.4	2.7	09.2.0001	09.4.0004
M4	13	7.45	2	6.4	4.5	09.1.0002, 09.2.0002	09.4.0005
M5	10	6.35	2	6.4	2.32	09.2.0001	09.4.0006
M5	13	7.45	2	6.4	4.11	09.1.0002, 09.2.0002	09.4.0007
M6	13	7.45	2	6.4	3.66	09.1.0002, 09.2.0002	09.4.0008
M8	16	10.65	2	6.4	6.36	09.1.0003	09.4.0009
M8	16	12.15	2	6.4	7.79	09.2.0003	09.4.0010
M10	16	12.15	2	6.4	6.28	09.2.0003	09.4.0011
M8	16	10	2	6.4	6.28	09.1.0004	09.4.0012

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

POWER 2 SOCKET TWO-PIECE, THROUGH HOLE



PRODUCT SPECIFICATIONS

- For press-fitting to a base body
- Custom alterations on request
- For attaching cable lugs, midi fuses, mega fuses and more to PCBs
- RoHS compliant

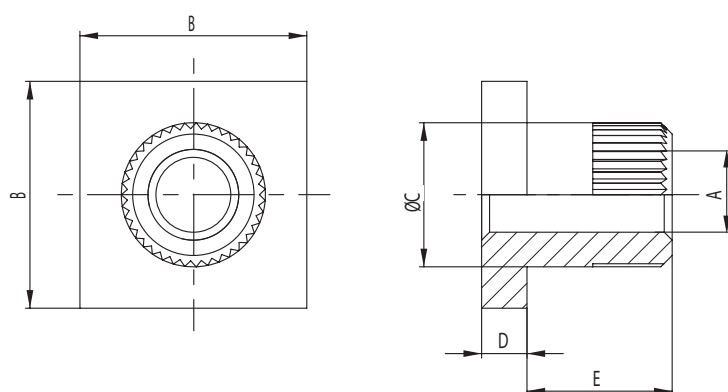


MATERIAL INFORMATION

Option	Part number
BlueBrass	09.5.00XX.BB



SCALE DRAWINGS



TECHNICAL DATA

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

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

PRODUCT OVERVIEW
WE BRING POWER TO YOUR PCB

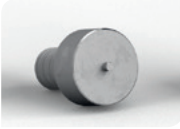
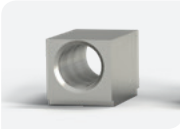
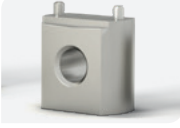
WE BRING
POWER TO YOUR
PCB.



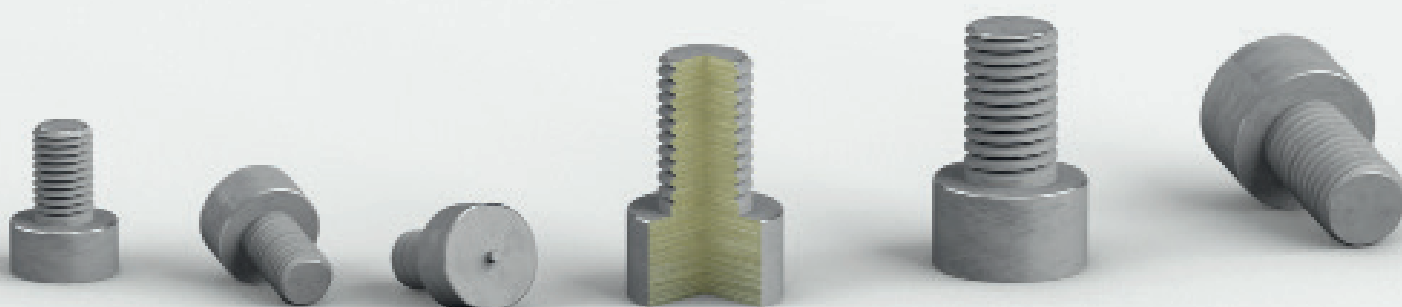


PRODUCT OVERVIEW

SMT SOLDERING

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

POWER TOWER SMD EXTERNAL THREAD



PRODUCT SPECIFICATIONS

- ✚ SMT soldering
- ✚ Available with or without spigot
- ✚ Suitable for fully automated assembly
- ✚ UNC thread or custom alterations on request
- ✚ For attaching cable lugs to PCBs
- ✚ RoHS compliant



MATERIAL INFORMATION

Option	Part number
BlueBrass	01.6.00XX.BB

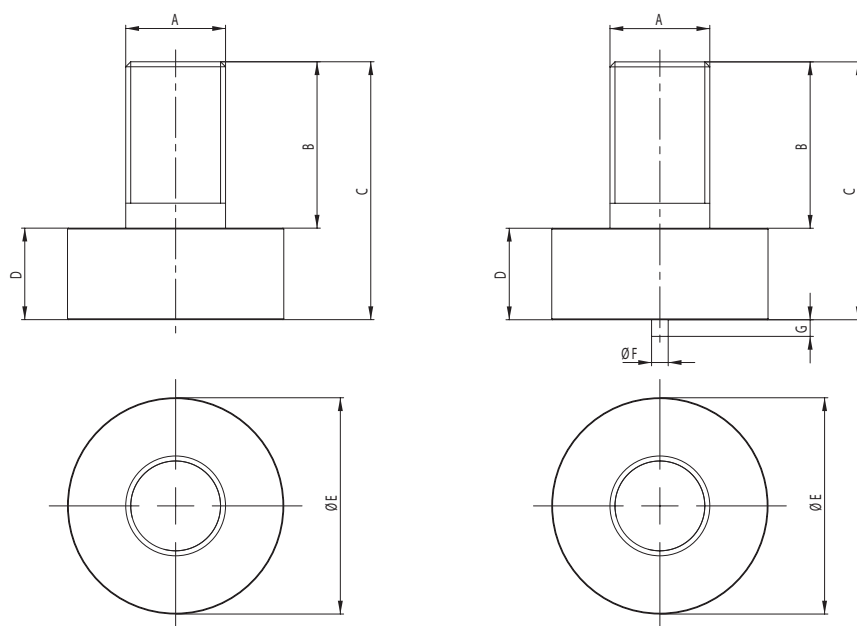
PACKING INFORMATION

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



SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	G	Spigot	Part number
M3	5	8	3	7	-	-	No	01.6.0001
M4	6	9.5	3.5	9	-	-	No	01.6.0002
M5	8	12.5	4.5	9	-	-	No	01.6.0003
M6	10	15.5	5.5	13	-	-	No	01.6.0004
M8	13	20.5	7.5	13	-	-	No	01.6.0005
M10	16	24	8	16	-	-	No	01.6.0006
M3	5	8	3	7	1	1	Yes	01.6.0007
M4	6	9.5	3.5	9	1	1	Yes	01.6.0008
M5	8	12.5	4.5	9	1	1	Yes	01.6.0009
M6	10	15.5	5.5	13	1	1	Yes	01.6.0010
M8	13	20.5	7.5	13	1	1	Yes	01.6.0011
M10	16	24	8	16	1	1	Yes	01.6.0012

Measurements B - G in mm

POWER SOCKET SMD INTERNAL THREAD



PRODUCT SPECIFICATIONS

- ✚ SMT soldering
- ✚ Available with or without spigot
- ✚ Suitable for fully automated assembly
- ✚ UNC thread or custom alterations on request
- ✚ For attaching cable lugs to PCBs
- ✚ RoHS compliant

RoHS
COMPLIANT

MATERIAL INFORMATION

Option	Part number
BlueBrass	02.6.00XX.BB

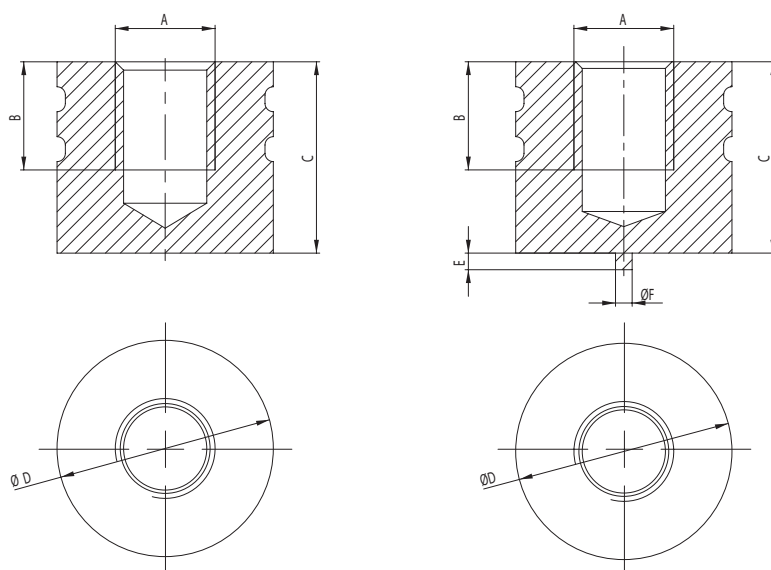
PACKING INFORMATION

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



SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	Spigot	Part number
M3	3.5	6	7	-	-	No	02.6.0054
M4	4	7	9	-	-	No	02.6.0055
M5	4	7	9	-	-	No	02.6.0056
M6	6.5	11.5	13	-	-	No	02.6.0057
M8	8	13.5	13	-	-	No	02.6.0058
M10	11	17.5	16	-	-	No	02.6.0059
M3	3.5	6	7	1	1	Yes	02.6.0060
M4	4	7	9	1	1	Yes	02.6.0061
M5	4	7	9	1	1	Yes	02.6.0062
M6	6.5	11.5	13	1	1	Yes	02.6.0063
M8	8	13.5	13	1	1	Yes	02.6.0064
M10	11	17.5	16	1	1	Yes	02.6.0065

Measurements B - F in mm

POWER SOCKET SMD FULL-LENGTH INTERNAL THREAD



PRODUCT SPECIFICATIONS

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

RoHS
COMPLIANT

MATERIAL INFORMATION

Option	Part number
BlueBrass	02.6.00XX.BB

PACKING 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*

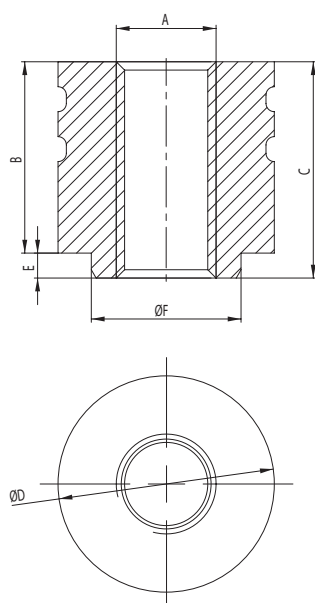
*DD = Diameter of Kapton pad

IMPORTANT!

Please note that the torque specifications of page 9 are **max. only 70 %** for the POWER SOCKET SMD full-length internal thread.



SCALE DRAWINGS

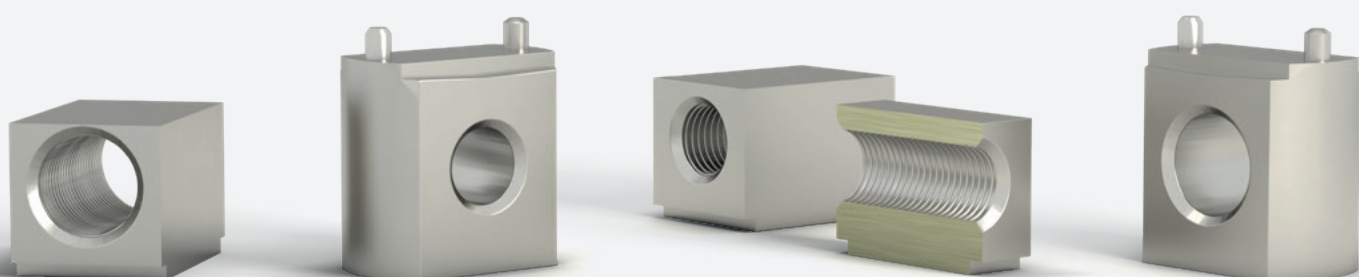


TECHNICAL DATA

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

Measurements B - F in mm

POWER EDGE SMD THROUGH HOLE / FULL-LENGTH INTERNAL THREAD



PRODUCT SPECIFICATIONS

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

RoHS
COMPLIANT

MATERIAL INFORMATION

Option	Part number
BlueBrass	03.6.00XX.BB

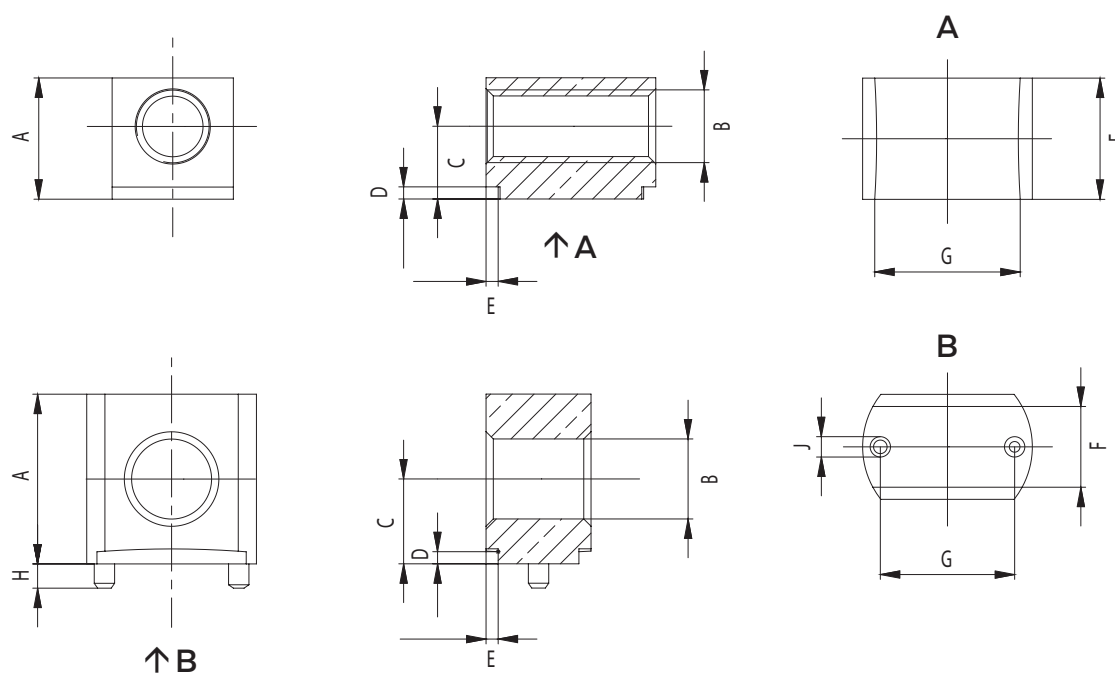
PACKING INFORMATION

Option	Part number
Bulk	03.6.00XX
Taped	03.6.00XX.GU
Taped (BlueBrass)	03.6.00XX.BBGU
Taped with Kapton	03.6.00XX.GUDD*

*DD = Diameter of Kapton pad



SCALE DRAWINGS



TECHNICAL DATA

A	B	C	D	E	F	G	H	J	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
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 B - J in mm

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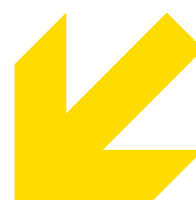
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WE LOOK
FORWARD TO
HEARING FROM YOU!



INDEX OF SUPPLIERS

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NOTES

YOUR COMMENTS

