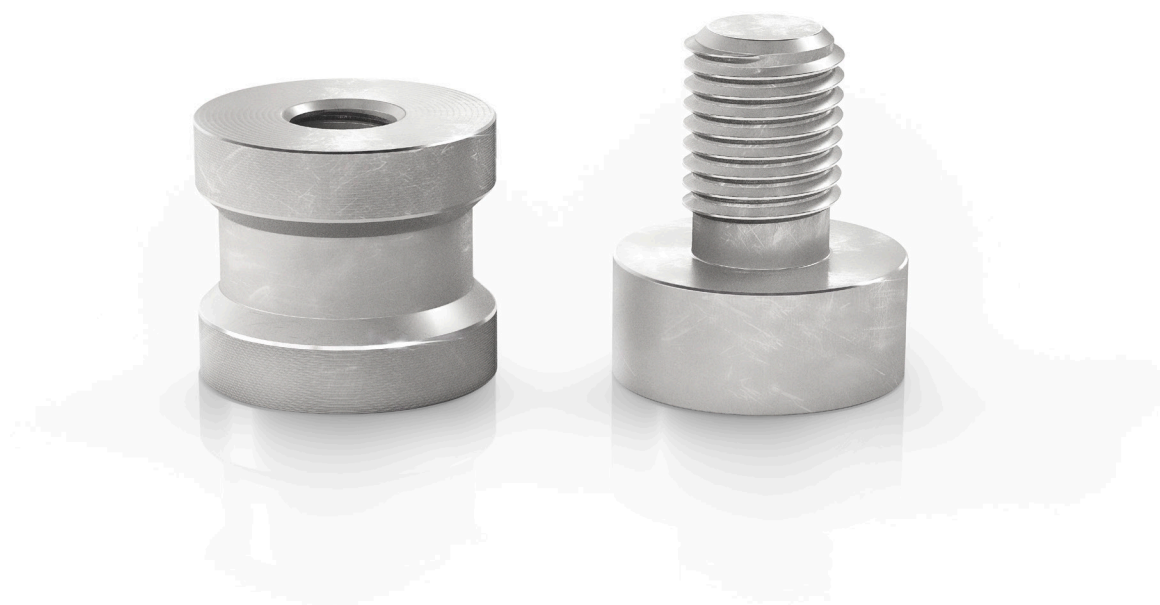


# PowerElements

powered by BLUEcontact Solutions™



Original size PowerElement male thread M5

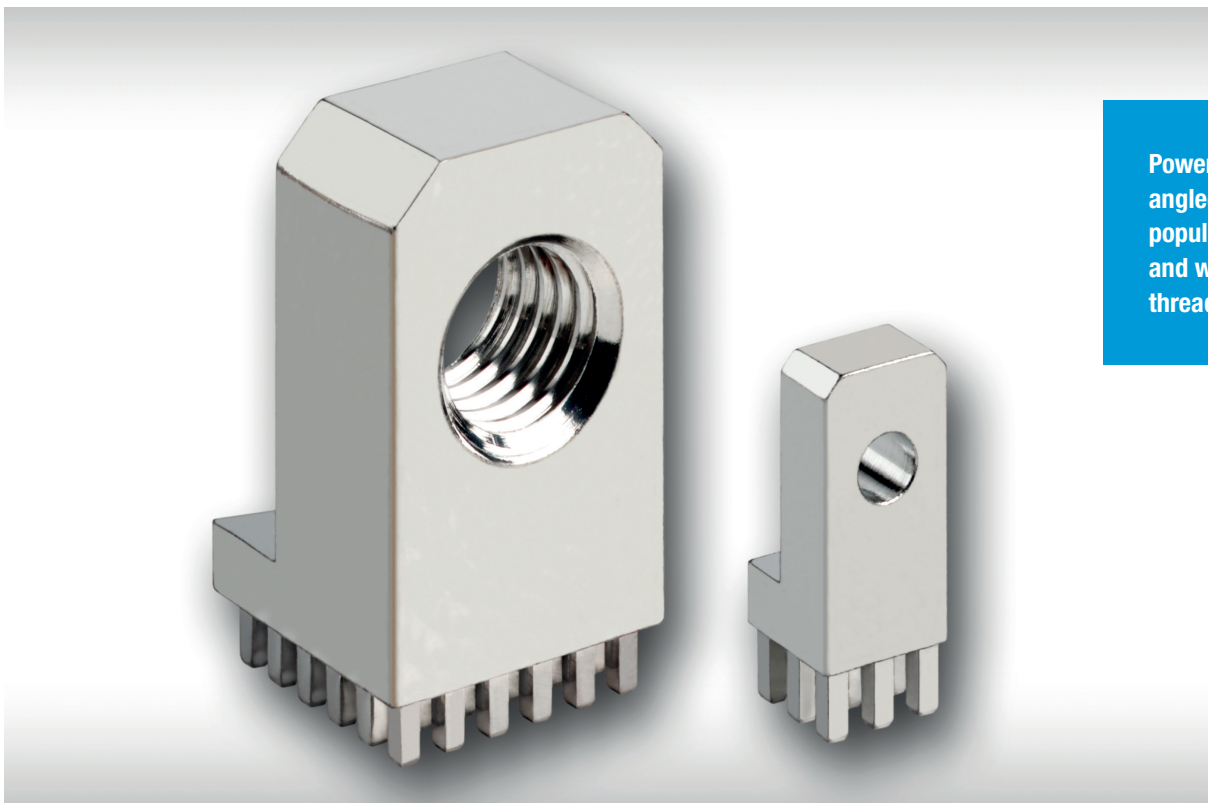
**ED. 04 | 01.2018**

Catalog E 074634

# PowerElements

## BLUEcontact Solutions™

### GENERAL



PowerElements  
angled, full pin  
population, with  
and without  
threads

As stated in its name, PowerElements can be used anywhere where you are dealing with “power” sourcing capabilities, namely high current on the PCB.

Be it “wire-to-board” sourcing and distribution in PCB based high current applications, or assembly, component connection and fixation such as screw locking (e.g. midi or mega fuses), relays with screw connection, conductor rail etc. on the PCBs.

For this we also provide additional insulation bodies e.g. twist protection, to avoid shorts and contact on the cable side of the connections such as cable lugs. Also mechanical challenges, such as the PCB connection inside a housing, in the interior or even with

# PowerElements

## BLUEcontact Solutions™

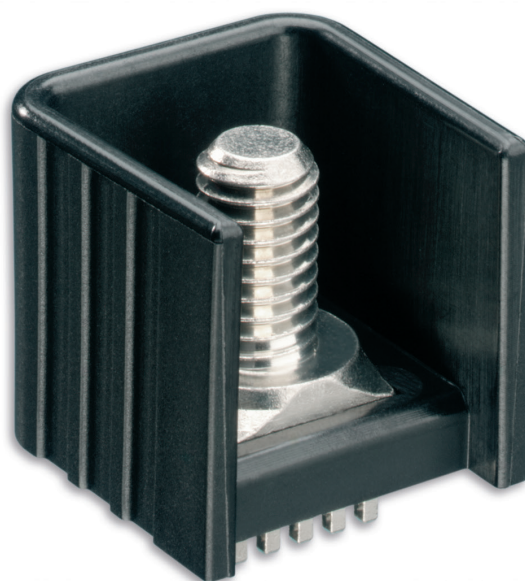
### GENERAL

a second PCB can be realised using PowerElements. The two piece PowerElement offers a special feature – it is press fitted from both sides of the PCB. The bearing surface on either side provide protection to the PCB against mechanical stress during assembly in the installation space.

Here, there are no limits to the variety of BLUEcontact PowerElements connection options.

Whether it's the headless screw, the thread nut as well as through holes or blind holes, whether perpendicular or angled, even the installation height, connection surface and thread or drill dimension can be selected and combined without restriction.

PowerElements in press-fit technology and SMD solder technology are available for processing. SMD PowerElements are delivered blister packed for fully automated assembly.

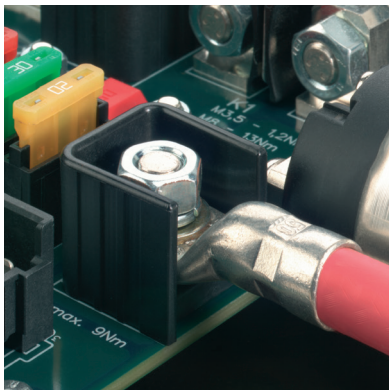


**PowerElements  
with twist  
protection**

# PowerElements

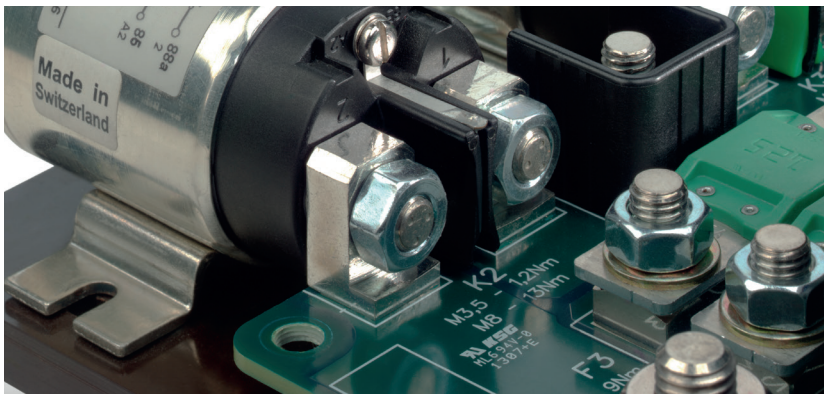
## CHARACTERISTICS —

### APPLICATION EXAMPLES



Attaching a cable to a M8 male thread PowerElement with twist protection (top left)

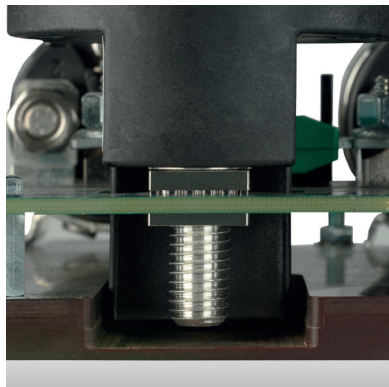
Attaching a megafuse on two M8 male thread PowerElements (top right)



Attaching a high-current relay onto an angled PowerElement (centre)

Attaching a battery disconnecting switch on two piece PowerElements (bottom centre)

Attaching a midifuse onto two M5 male thread PowerElements (below right)



# PowerElements

## CHARACTERISTICS —

### FITTING INSTRUCTIONS

The BLUEcontact PowerElements are REACH conform and with a lead content under 4 percentage by weight, they are also RoHS conform. The PowerElements can be press fitted from a PCB thickness of 1.6 mm upwards. Immersion tin and HAL lead free are the most preferable PCB surfaces here. PowerElements for SMD solder technology should not be stored for longer than six months, as the sol-

derability can otherwise not be guaranteed.

- Retention force according to IEC 60352-5
- Press fit force: max. 250 N per pin
- Temperature range: -40°C to + 135°C

### TECHNICAL DATA

<b>Material base body</b>	CuZn39Pb3
<b>Material flexible pressfit zone</b>	CuNiSi
<b>Surface</b>	tin plated
<b>Retention force</b>	according to IEC 352-5
<b>Press fit force</b>	Max. 250 N per pin Min. 40 N per pin
<b>Press out force</b>	Min. 30 N per pin
<b>PCB thickness</b>	Min. 1.6 mm

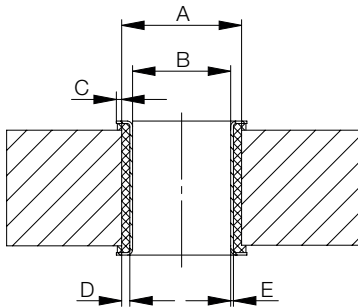
# PowerElements

## MASSIVE PRESSFIT ZONE / CHARACTERISTICS

### GENERAL TECHNICAL DATA

Current carrying capability per PowerElement	Approx. 10 A per pin
Tightening torque M3/M4/M5/M6/M8/M10/M12	0.5 Nm / 1.2 Nm / 2.2 Nm / 3.9 Nm / 9.0 Nm / 17.0 Nm / 35.0 Nm
Operating temperature	-40°C to +135°C

### DRILL HOLE SPECIFICATIONS



	Surface	A	B	C	D	E
Massive pressfit zone	Immersion tin	$\varnothing 1.6 -0.03$	$\varnothing 1.475 \pm 0.05$	0.1 min.	Cu 25 $\mu\text{m}$ min. Cu 60 $\mu\text{m}$ max.	Sn 15 $\mu\text{m}$ max.
	HAL lead free	$\varnothing 1.6 -0.03$	$\varnothing 1.45 \pm 0.05$	0.1 min.	Cu 25 $\mu\text{m}$ min. Cu 60 $\mu\text{m}$ max.	Sn 15 $\mu\text{m}$ max.

#### CAUTION:

It is essential that both the drill diameter and final diameter are complied with in order to guarantee the specified characteristics.

# PowerElements

## FOR SMD SOLDER TECHNOLOGY

### GENERAL TECHNICAL DATA

<b>Current carrying capability per PowerElement</b>	Up to 200 A*
<b>Tightening torque M3/M4/M5/M6/M8/M10</b>	0.5 Nm / 1.2 Nm / 2.2 Nm / 3.9 Nm / 9.0 Nm / 17.0 Nm
<b>Operating temperature</b>	-40°C to +155°C
<b>Solder paste thickness</b>	150 µm

\* current carrying capability is subject to PCB thickness, cable cross section, the soldering tin used as well as ambient temperature

### PRODUCT GROUPS

The PowerElements for SMD-Solder technology are usually categorised into three main groups

- SMD pin (with or without peg)
- SMD socket (with or without peg)
- SMD socket with through-hole thread

### LAYOUT SPECIFICATIONS

The SMD PowerElements have a round base body that is rotationally symmetrical. The diameter of the SMD Pad should be at least 0.5 mm greater than the diameter of the base body of the selected PowerElement. In the case of elements with a spigot, an additional non-plated through hole with a drilled diameter of 1.2 mm must be provided in the center. In the case of elements with a through hole, additional non-plated through holes must also be provided, depending on the diameter of the base body:

- PowerElement with diameter 7 mm: NPT hole with 5.2 mm
- PowerElement with diameter 9 mm: NPT hole with 6.2 mm
- PowerElement with diameter 13 mm: NPT hole with 9.2 mm
- PowerElement with diameter 16 mm: NPT hole with 12.2 mm

If you have detailed questions about the layout or ideal soldering paste, please contact the ERNI team directly.

# PowerElements

## OVERVIEW

### PRODUCT MATRIX PRESSFIT TECHNOLOGY






	Number of pins	6	8	9	10	12	16	20	25	36	49
	Male thread, full pin population			M3 M4 M5			M4 M5		M6 M8	M10	
	Female thread, full pin population			M3			M4 M5 M6		M8	M10	
	Female thread, two rows pin population	M3	M4 M5 M6		M8	M10					
	Female thread, circular pin population		M2,5			M4 M5	M6 M8	M10			
	Angled, full pin population			M3 ø3.2			M4, M5 ø4.2 ø5.2		M6, M8 ø6.2 ø8.2	M10 ø10.2	
	Angled, two rows pin population	M3 ø3.2	M4, M5 ø4.2 ø5.2		M6, M8 ø6.2 ø8.2	M10 ø10.2					
	Angled, U-profile, full pin population								ø5.2	ø8.2 ø10.2	
	Protection for PowerElements with male thread	Suitable for M3, M4, M5, M6, M8, M10									

	Number of pins	8	10	12	16	20
	Two-part, base-part, two row pin population	M3, M4 ø3.2, ø4.2	M4, M5, M6 ø4.2, ø5.2, ø6.2	M8 ø8.2		
	Two-part, base-part, circular pin population			M3, M4, M5 ø4.2, ø5.2	M4, M5, M6 ø4.2, ø5.2, ø6.2	M8, M10 ø6.2, ø8.2

# PowerElements

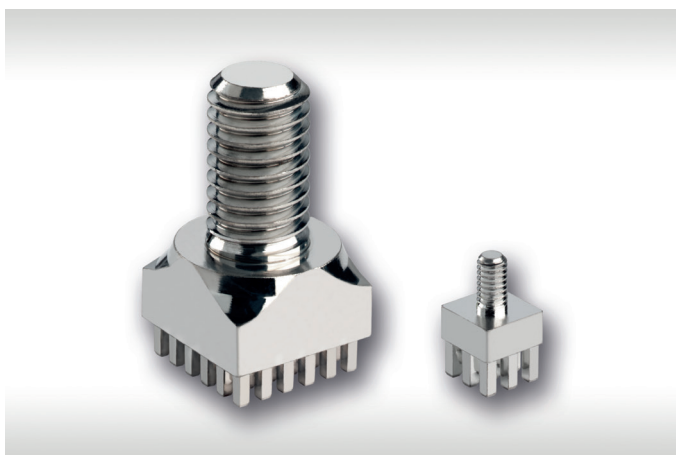
## OVERVIEW —

### PRODUCT MATRIX SMD-SOLDER TECHNOLOGY

	Diameter	7	9	13	16
	SMD pin	M3	M4, M5	M6, M8	M10
	SMD pin with spigot	M3	M4, M5	M6, M8	M10
	SMD socket	M3	M4, M5	M6, M8	M10
	SMD socket with spigot	M3	M4, M5	M6, M8	M10
	SMD socket with through-hole thread	M3	M4, M5	M6, M8	M10

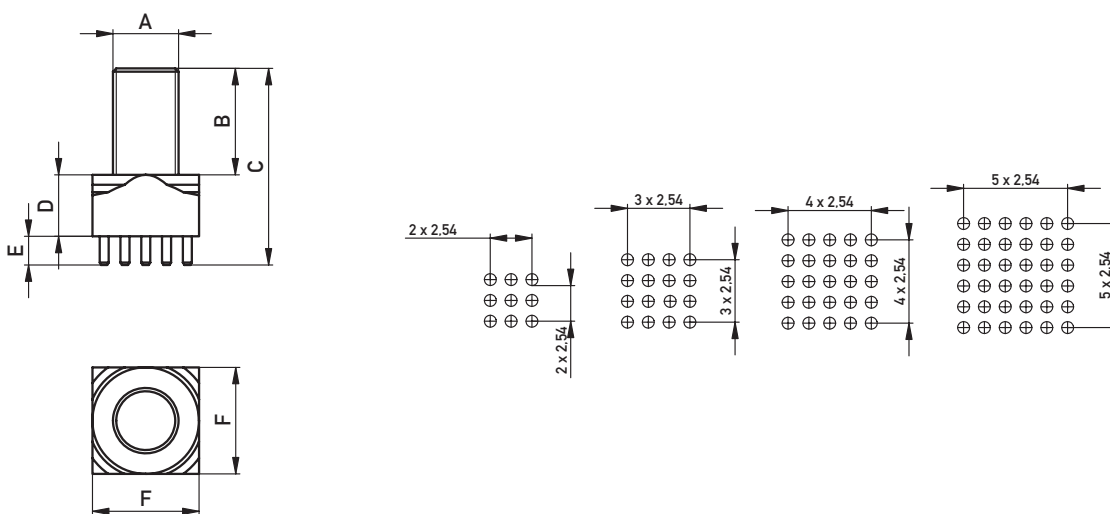
## MASSIVE PRESSFIT ZONE, MALE THREAD AND FULL PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Fixing midi or mega fuses on the PCB
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



## MASSIVE PRESSFIT ZONE, MALE THREAD AND FULL PIN POPULATION

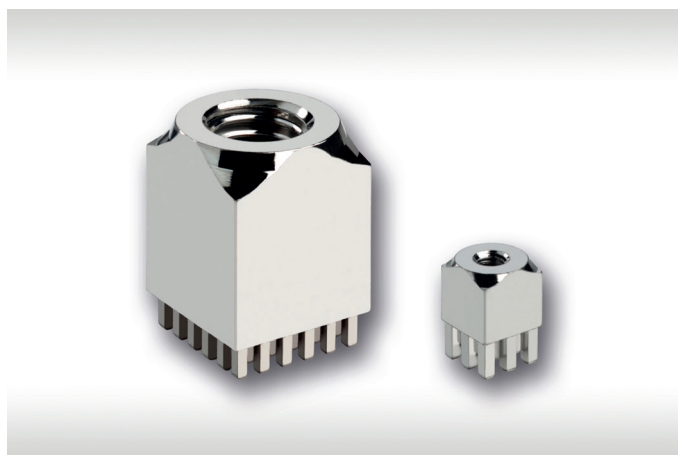
### ORDERING INFORMATION

A	B	C	D	E	F	No. of Pins	Weight	Part Number
M3	5	11	3	3.5	7	9	2.1	225675
M4	6	13	3.5	3.5	9	16	3.6	225676
M4	6	12.5	3	3.5	7	9	3.6	225804
M5	8	15.5	4	3.5	7	9	4.3	225777
M5	8	16	4.5	3.5	9	16	4.9	225677
M6	10	19	5.5	3.5	13	25	10.5	225678
M8	13	24	7.5	3.5	13	25	15.9	225679
M10	16	27.5	8	3.5	16	36	27.2	225680
M12	30	41.5	8	3.5	18	36	46.6	225898

Dimension B - F in mm, Weight in g

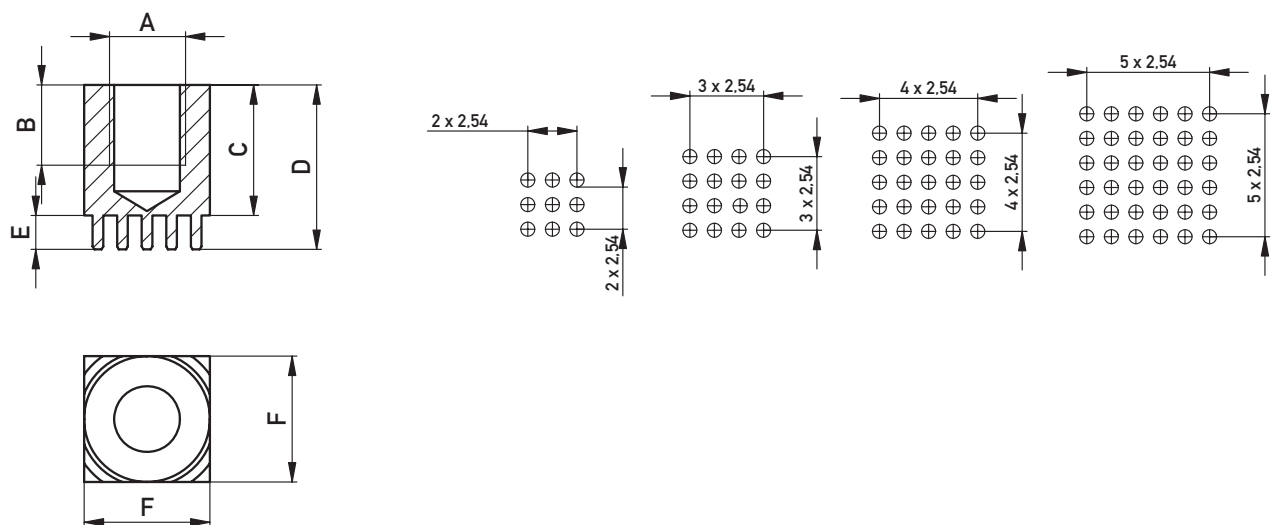
## MASSIVE PRESSFIT ZONE, FEMALE THREAD AND FULL PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Fixing midi or mega fuses on the PCB
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



## MASSIVE PRESSFIT ZONE, FEMALE THREAD AND FULL PIN POPULATION

### ORDERING INFORMATION

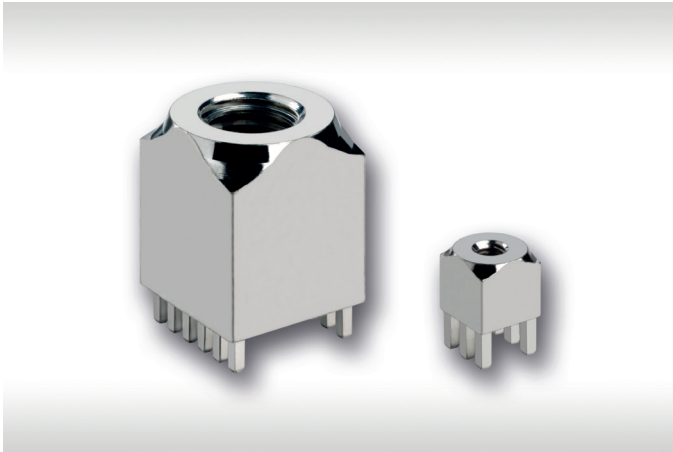
A	B	C	D	E	F	No. of Pins	Weight	Part Number
M3	3.5	6	9.5	3.5	7	9	2.5	225681
M4	4	7	10.5	3.5	9	16	4.6	225682
M5	4	7	10.5	3.5	9	16	4.4	225683
M6	6.5	10.5	14	3.5	10	16	7	225684
M8	8	13.5	17	3.5	13	25	14.2	225685
M10	11	17.5	21	3.5	16	36	26.2	225686

Dimension B - F in mm, Weight in g

# PowerElements

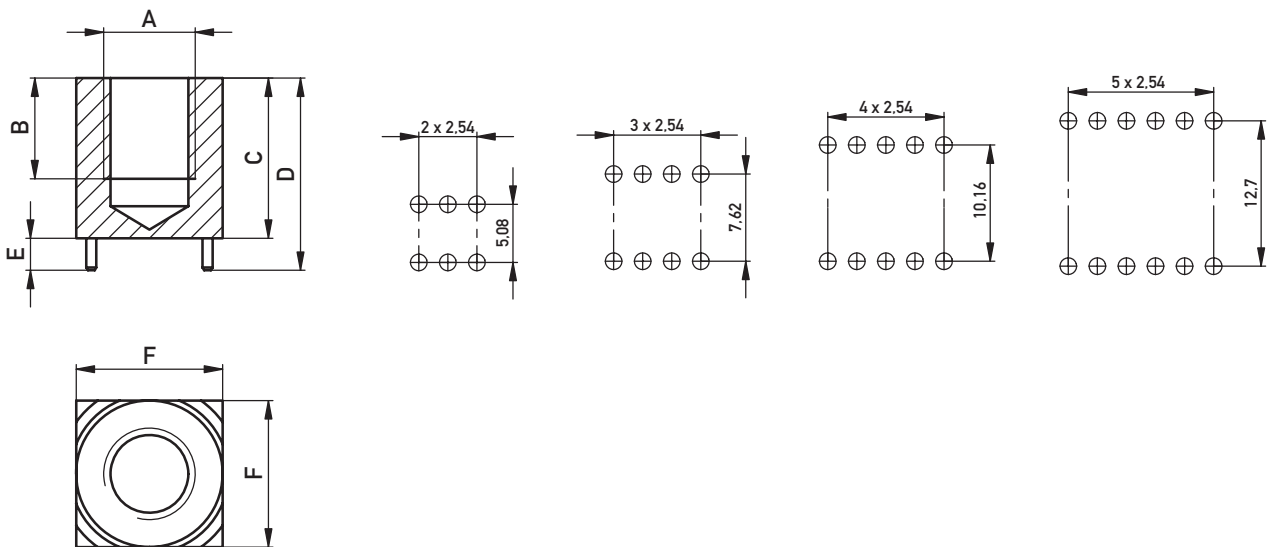
## MASSIVE PRESSFIT ZONE, FEMALE THREAD AND TWO ROWS PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Available with continuous thread
- Fixing midi or mega fuses on the PCB
- When smaller pressfit forces are required
- When the layout does not permit full pin population
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



## MASSIVE PRESSFIT ZONE, FEMALE THREAD AND TWO ROWS PIN POPULATION

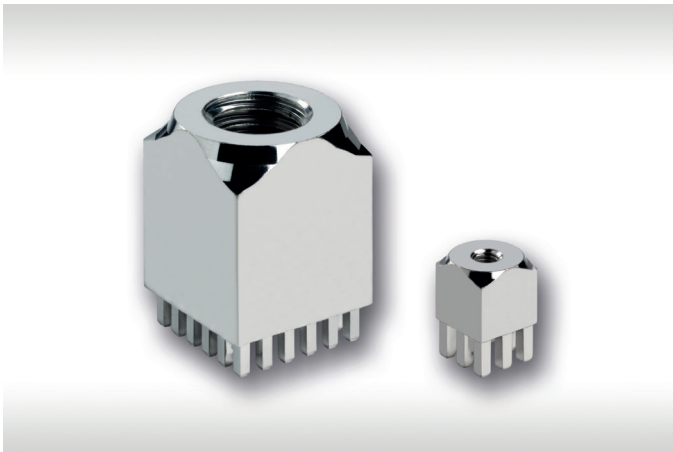
### ORDERING INFORMATION

A	B	C	D	E	F	No. of Pins	Weight	Part Number
M3	5	6	9.5	3.5	7	6	2.3	225693
M4	6	7	10.5	3.5	9	8	4.2	225694
M5	6	7	10.5	3.5	9	8	3.8	225695
M6	9	13.5	17	3.5	10	8	8.2	225696
M8	10	13.5	17	3.5	13	10	12.2	225697
M10	11	17.5	21	3.5	16	12	25.3	225698

Dimension B - F in mm, Weight in g

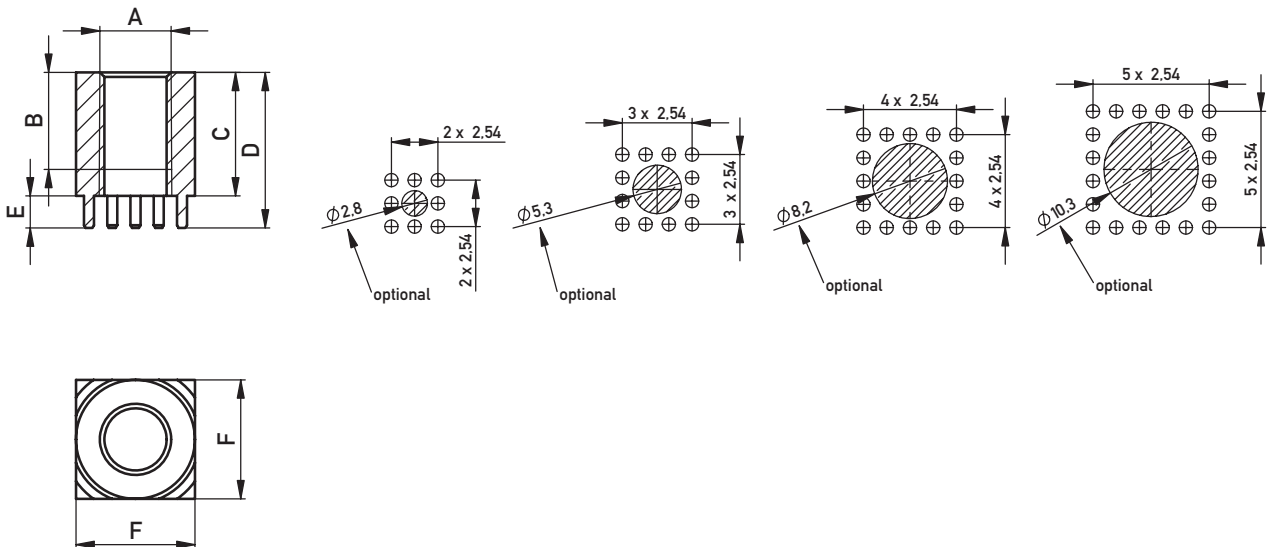
## MASSIVE PRESSFIT ZONE, FEMALE THREAD AND CIRCULAR PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Available with continuous thread
- Fixing midi or mega fuses on the PCB
- When smaller pressfit forces are required
- When the layout does not permit full pin population
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



## MASSIVE PRESSFIT ZONE, FEMALE THREAD AND CIRCULAR PIN POPULATION

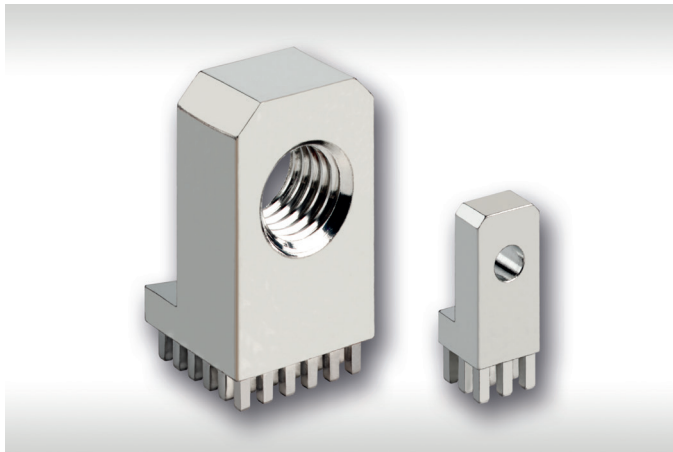
### ORDERING INFORMATION

A	B	C	D	E	F	No. of Pins	Weight	Part Number
M2.5	5	6	9.5	3.5	7	8	2.5	225687
M4	5.2	6	9.5	3.5	9	12	3.8	225688
M5	–	6	9.5	3.5	9	12	3.6	225689
M6	–	13.5	17	3.5	13	16	14.6	225690
M8	–	13.5	17	3.5	13	16	12.4	225691
M10	–	17.5	21	3.5	16	20	22.6	225692

Dimension B - F in mm, Weight in g

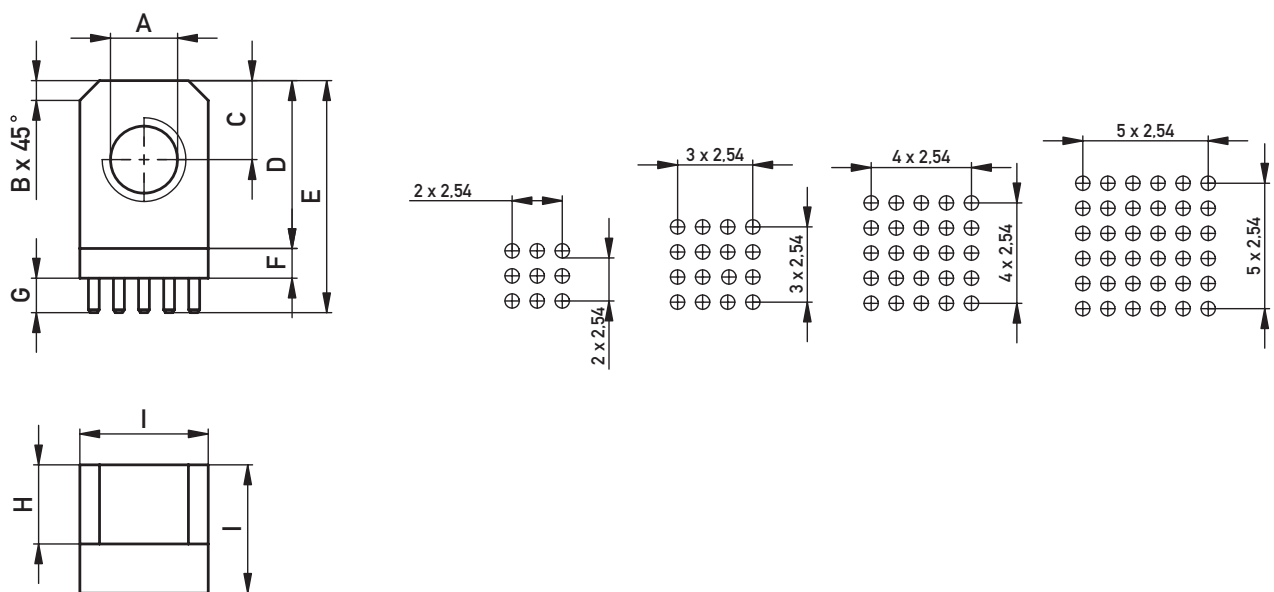
## MASSIVE PRESSFIT ZONE, ANGLED, FULL PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Connection 90°
- Available with thread or through hole
- UNC thread or customer specific modifications on demand
- As a fixing element for assembly onto housing etc.
- E.g. for the connection of high current relays

### DIMENSIONAL DRAWINGS



## MASSIVE PRESSFIT ZONE, ANGLED, FULL PIN POPULATION

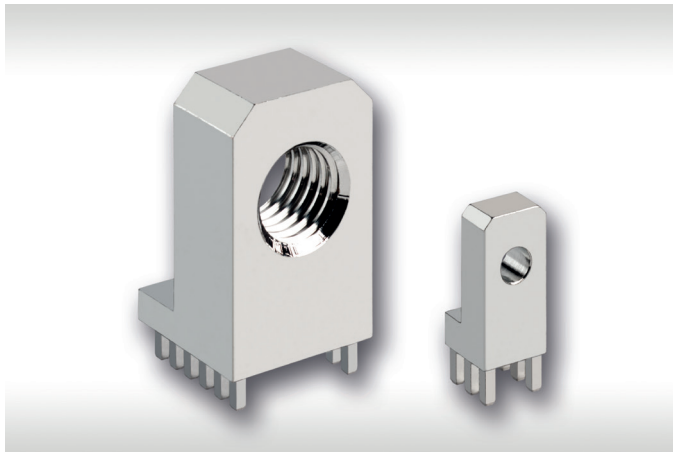
### ORDERING INFORMATION

A	B	C	D	E	F	G	H	I	No. of Pins	Weight	Part Number
M3	1	5	11	17.5	3	3.5	4	7	9	4.2	225699
M4	1.5	5	11	17.5	3	3.5	5	9	16	6.6	225700
M5	1.5	5	11	17.5	3	3.5	5	9	16	6.4	225701
M6	2	8	17	23.5	3	3.5	8	13	25	19	225702
M8	2	8	17	23.5	3	3.5	8	13	25	17.7	225703
M10	2.5	10	22	28.5	3	3.5	10	16	36	22.6	225704
ø 3.2	1	5	11	17.5	3	3.5	4	7	9	4	225705
ø 4.2	1.5	5	11	17.5	3	3.5	5	9	16	6.3	225706
ø 5.2	1.5	5	11	17.5	3	3.5	5	9	16	6	225707
ø 6.2	2	8	17	23.5	3	3.5	8	13	25	18.3	225708
ø 8.2	2	8	17	23.5	3	3.5	8	13	25	16.7	225709
ø 10.2	2.5	10	22	28.5	3	3.5	10	16	36	30.9	225710
ø 10.2	2.5	10	22	28.5	3	3.5	5	16	36	30.9	225784

Dimension B - I in mm, Weight in g

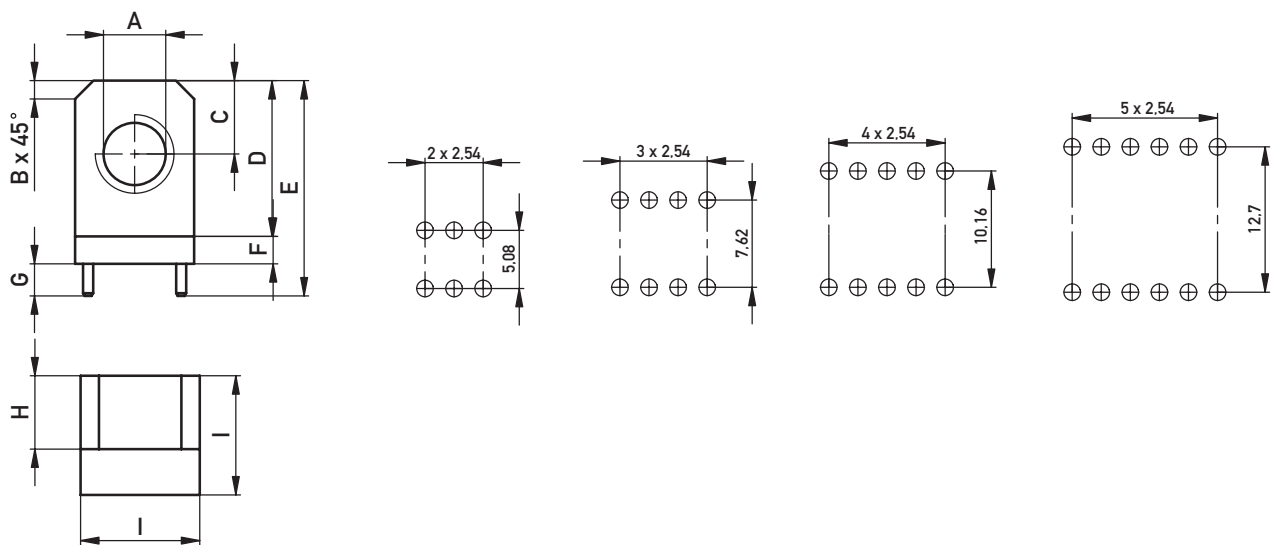
## MASSIVE PRESSFIT ZONE, ANGLED, TWO ROW PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Connection 90°
- Available with thread or through hole
- UNC thread or customer specific modifications on demand
- When smaller pressfit forces are required
- When the layout does not permit full pin population
- E.g. for the connection of high current relays

### DIMENSIONAL DRAWINGS



## MASSIVE PRESSFIT ZONE, ANGLED, TWO ROW PIN POPULATION

### ORDERING INFORMATION

A	B	C	D	E	F	G	H	I	No. of Pins	Weight	Part Number
M3	1	5	11	17.5	3	3.5	4	7	6	4	225711
M4	1.5	5	11	17.5	3	3.5	5	9	8	6.3	225712
M5	1.5	5	11	17.5	3	3.5	5	9	8	6.1	225713
M6	2	8	17	23.5	3	3.5	8	13	10	18.4	225714
M8	2	8	17	23.5	3	3.5	8	13	10	17.2	225715
M10	2.5	10	22	28.5	3	3.5	10	16	12	31.5	225716
ø 3.2	1	5	11	17.5	3	3.5	4	7	6	3.9	225717
ø 4.2	1.5	5	11	17.5	3	3.5	5	9	8	6	225718
ø 5.2	1.5	5	11	17.5	3	3.5	5	9	8	5.7	225719
ø 6.2	2	8	17	23.5	3	3.5	8	13	10	17.7	225720
ø 8.2	2	8	17	23.5	3	3.5	8	13	10	16.2	225721
ø 10.2	2.5	10	22	28.5	3	3.5	10	16	12	30	225722

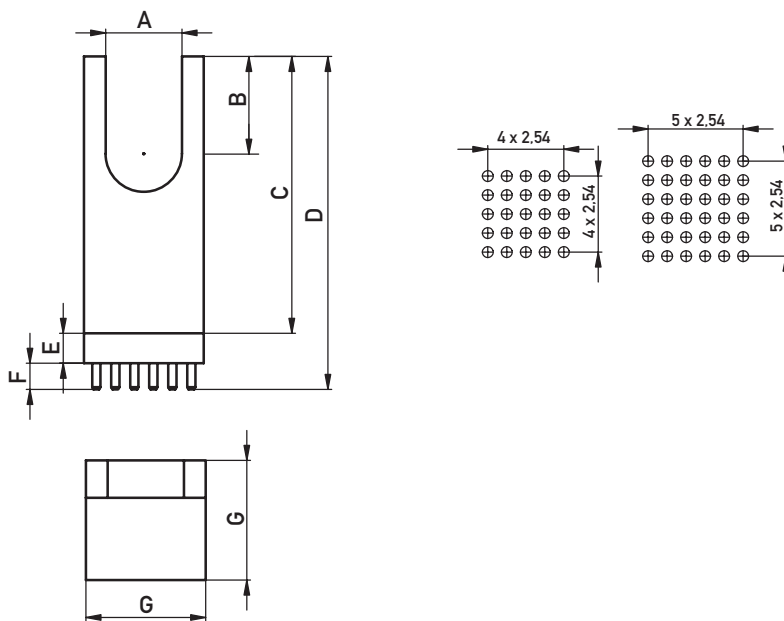
Dimension B - I in mm, Weight in g

## MASSIVE PRESSFIT ZONE, ANGLED, U-PROFILE, FULL PIN POPULATION

### PRODUCT SPECIFICATION

- PCB connection for fixing cable lugs
- Connection 90°
- Due to the u-profile ensures a simple processing of the mounting bolt
- Compensation of greater height tolerances possible
- As a fixing element for assembly onto housing etc.
- E.g. for the connection of high current relays

### DIMENSIONAL DRAWINGS



## MASSIVE PRESSFIT ZONE, ANGLED, U-PROFILE, FULL PIN POPULATION

### ORDERING INFORMATION

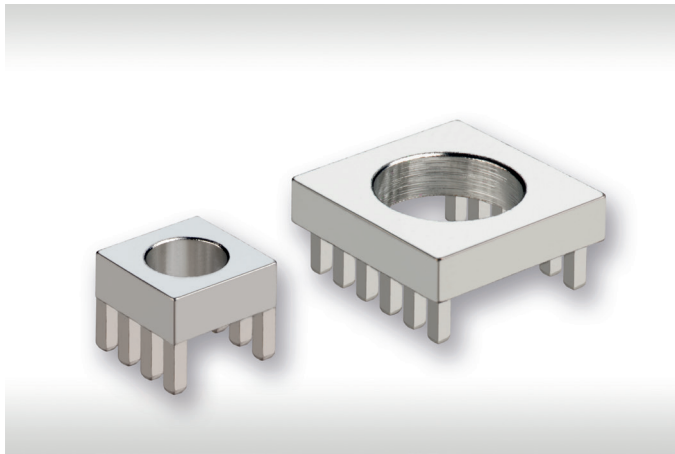
A	B	C	D	E	F	G	H	No. of Pins	Weight	Part Number
ø 5.2	10	32	39.5	4	3.5	5	13	25	21.4	225899
ø 8.2	10	35	42.5	4	3.5	5	16	36	28.94	225888
ø 10.2	13	37	44.5	4	3.5	5	16	36	28.9	225887

Dimension B - H in mm, Weight in g

# PowerElements

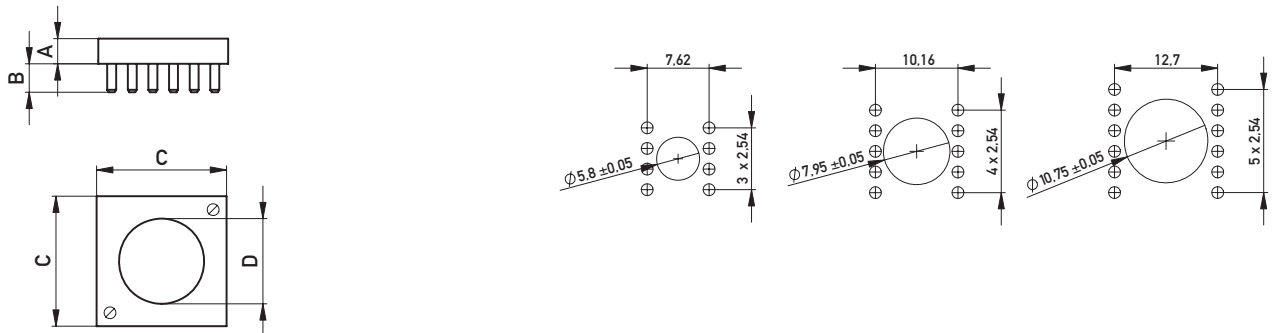
## TWO-PART, BASE-PART, TWO ROW PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Fixing of large heavy components (e.g. battery disconnection switch)
- Protecting PCB from mechanical stress
- Pitch 2.54 mm

### DIMENSIONAL DRAWINGS



# PowerElements

## TWO-PART, BASE-PART, TWO ROW PIN POPULATION

### ORDERING INFORMATION

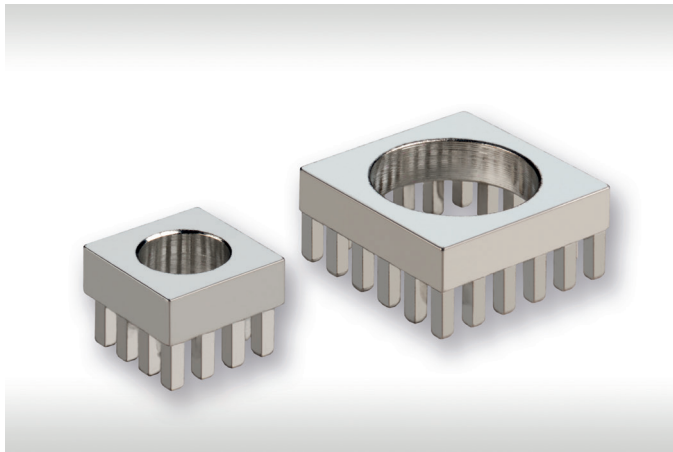
A	B	C	D	No. of Pins	Weight	Part Number
3.1	3.5	9	5.5	8	1.8	225726
3.1	3.5	13	7.3	10	3.7	225727
3.1	3.5	16	10.5	12	4.89	225728
3.1	3.5	16	9.8	12	5.18	225729

Dimension A - D in mm, Weight in g

# PowerElements

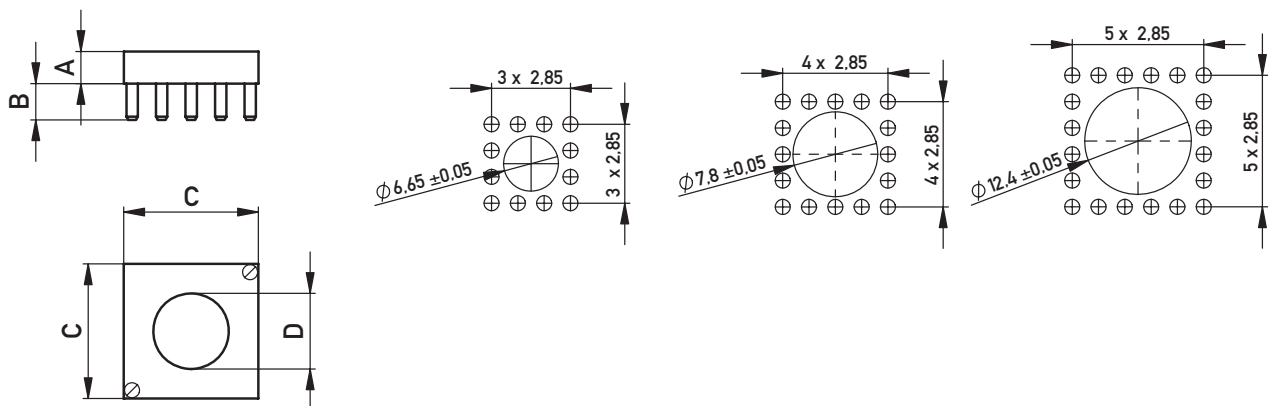
## TWO-PART, BASE-PART, CIRCULAR PIN POPULATION

### PRODUCT SPECIFICATION



- PCB connection for fixing cable lugs
- Fixing of large heavy components (e.g. battery disconnection switch)
- Protecting PCB from mechanical stress
- Pitch 2,85 mm

### DIMENSIONAL DRAWINGS



# PowerElements

## TWO-PART, BASE-PART, CIRCULAR PIN POPULATION

### ORDERING INFORMATION

A	B	C	D	No. of Pins	Weight	Part Number
3.1	3.5	10	6.2	12	2.27	225723
3.1	3.5	13	7.3	16	3.93	225724
3.1	3.5	16	12	20	4.49	225725

Dimension A - D in mm, Weight in g

# PowerElements

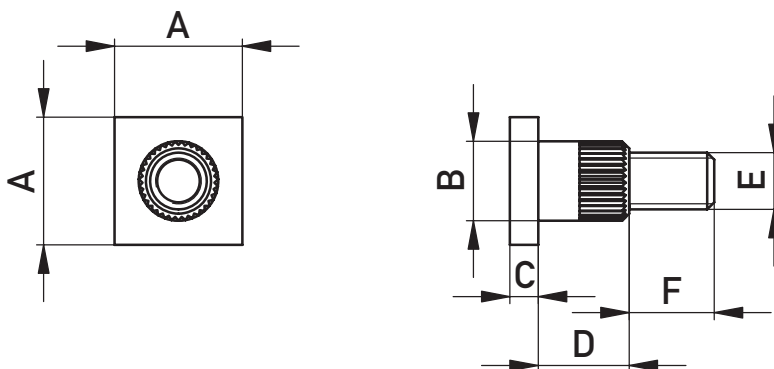
## TWO-PART, MALE THREAD —

### PRODUCT SPECIFICATION



- For pressing in base body
- PCB connection for fixing cable lugs
- Fixing of large heavy components
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



# PowerElements

## TWO-PART, MALE THREAD

### ORDERING INFORMATION

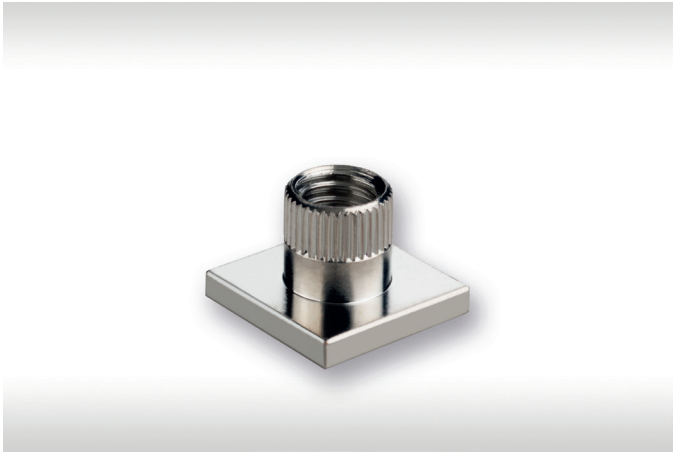
A	B	C	D	E	F	Used Base Plate	Weight	Part Number
9	5.6	2	6.4	M3	5	225726	2.91	225730
10	6.35	2	6.4	M3	6	225723	3.67	225731
9	5.6	2	6.4	M4	6	225726	3.25	225732
10	6.35	2	6.4	M4	6	225723	3.95	225733
13	7.45	2	6.4	M5	8	225724, 225727	6.43	225734
10	6.35	2	6.4	M5	9	225723	4.8	225735
13	7.45	2	6.4	M6	10	225724, 225727	7.49	225736
16	12.15	2	6.4	M8	13	225725	15.95	225737
16	10.65	2	6.4	M8	13	225728	14.51	225738
13	7.45	2	6.4	M4	8	225724, 225727	5.96	225763
16	12.15	2	6.4	M10	13	225725	19.05	225764
16	10	2	6.4	M8	13	225729	13.95	225767

Dimension A - D and F in mm, Weight in g

# PowerElements

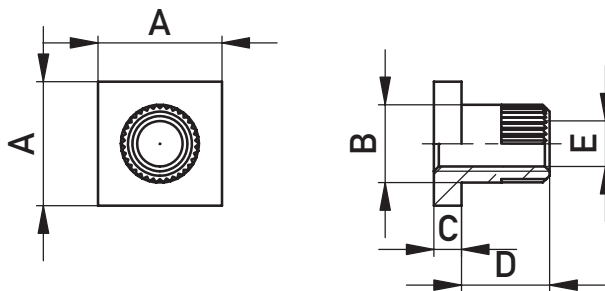
## TWO-PART, FEMALE THREAD

### PRODUCT SPECIFICATION



- For pressing in base body
- PCB connection for fixing cable lugs
- Fixing of large heavy components
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



# PowerElements

## TWO-PART, FEMALE THREAD

### ORDERING INFORMATION

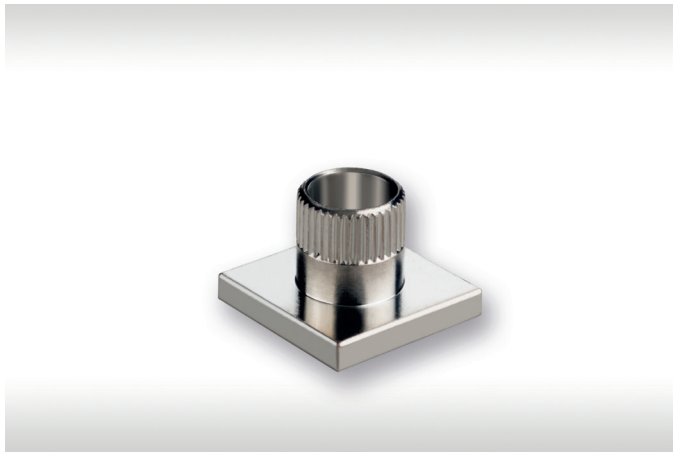
A	B	C	D	E	Used Base Plate	Weight	Part Number
9	5.65	2	6.4	M3	225726	2.31	225739
10	6.35	2	6.4	M3	225723	2.98	225740
9	5.65	2	6.4	M4	225726	2.03	225741
10	6.35	2	6.4	M4	225723	2.7	225742
13	7.45	2	6.4	M4	225724, 225727	4.5	225743
10	6.35	2	6.4	M5	225723	2.32	225744
13	7.45	2	6.4	M5	225724, 225727	4.11	225745
13	7.45	2	6.4	M6	225724, 225727	3.66	225746
16	10.65	2	6.4	M8	225728	6.38	225747
16	12.15	2	6.4	M8	225725	7.79	225748
16	12.15	2	6.4	M10	225725	6.28	225750
16	10	2	6.4	M8	225729	5.82	225765

Dimension A - D in mm, Weight in g

# PowerElements

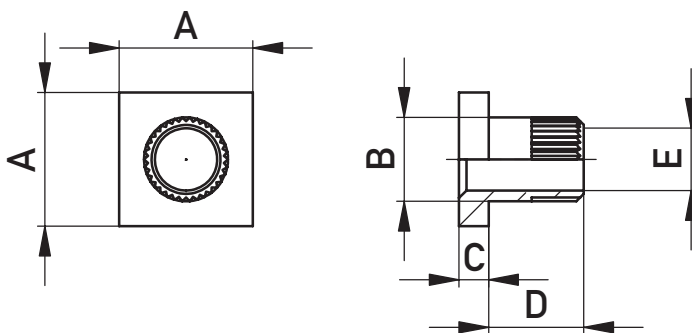
## TWO-PART, FEMALE THROUGH-HOLE

### PRODUCT SPECIFICATION



- For pressing in base body
- PCB connection for fixing cable lugs
- Fixing of large heavy components
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



# PowerElements

## TWO-PART, FEMALE THROUGH-HOLE

### ORDERING INFORMATION

A	B	C	D	E	Used Base Plate	Weight	Part Number
9	5.65	2	6.4	ø 3.2	225726	2.07	225751
10	6.35	2	6.4	ø 4.2	225723	2.32	225752
13	7.45	2	6.4	ø 4.2	225724, 225727	4.12	225753
9	5.65	2	6.4	ø 4.2	225726	1.65	225754
10	6.35	2	6.4	ø 5.2	225723	1.79	225755
13	7.45	2	6.4	ø 5.2	225724, 225727	3.59	225756
13	7.45	2	6.4	ø 6.2	225724, 225727	2.95	225757
16	10.65	2	6.4	ø 8.2	225728	5.23	225758
16	10	2	6.4	ø 8.2	225729	4.67	225759
16	12.15	2	6.4	ø 10.2	225725	4.6	225760
16	12.15	2	6.4	ø 8.2	225725	6.66	225761
16	10.65	2	6.4	ø 6.2	225728	6.84	225762
10	6.35	2	6.4	ø 3.2	225723	2.74	225766

Dimension A - D in mm, Weight in g

# PowerElements

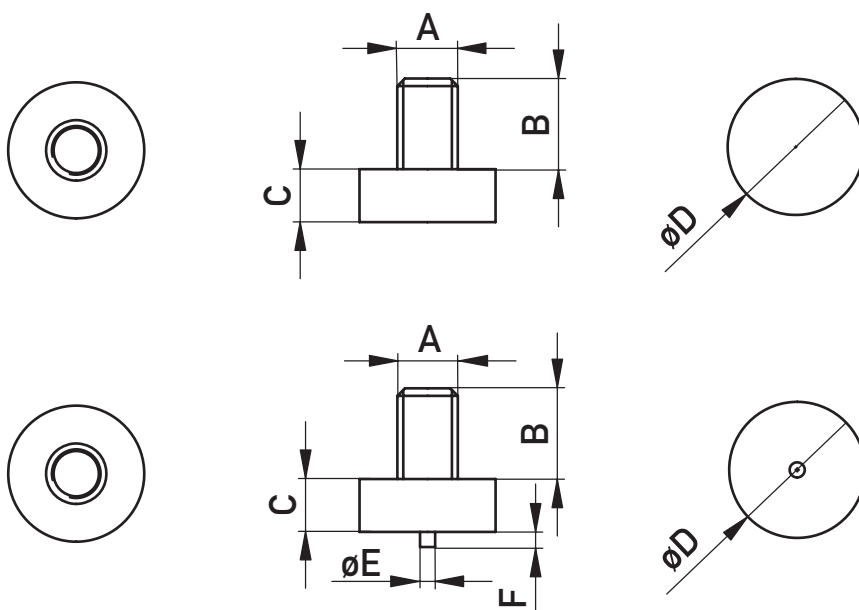
## SMD, MALE THREAD

### PRODUCT SPECIFICATION



- For soldering in SMT
- Available with and without peg
- Blistered for fully automated assembly
- PCB connection for fixing cable lugs
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



# PowerElements

## SMD, MALE THREAD

### ORDERING INFORMATION

A	B	C	D	E	F	Mounting Peg	Part Number
M3	5	3	7	–	–	0	225850
M4	6	3.5	9	–	–	0	225851
M5	8	4.5	9	–	–	0	225852
M6	10	5.5	13	–	–	0	225853
M8	13	7.5	13	–	–	0	225854
M10	16	8	16	–	–	0	225855
M3	5	3	7	1	1	1	225862
M4	6	3.5	9	1	1	1	225863
M5	8	4.5	9	1	1	1	225864
M6	10	5.5	13	1	1	1	225865
M8	13	7.5	13	1	1	1	225866
M10	16	8	16	1	1	1	225867

Dimension B - F in mm

# PowerElements

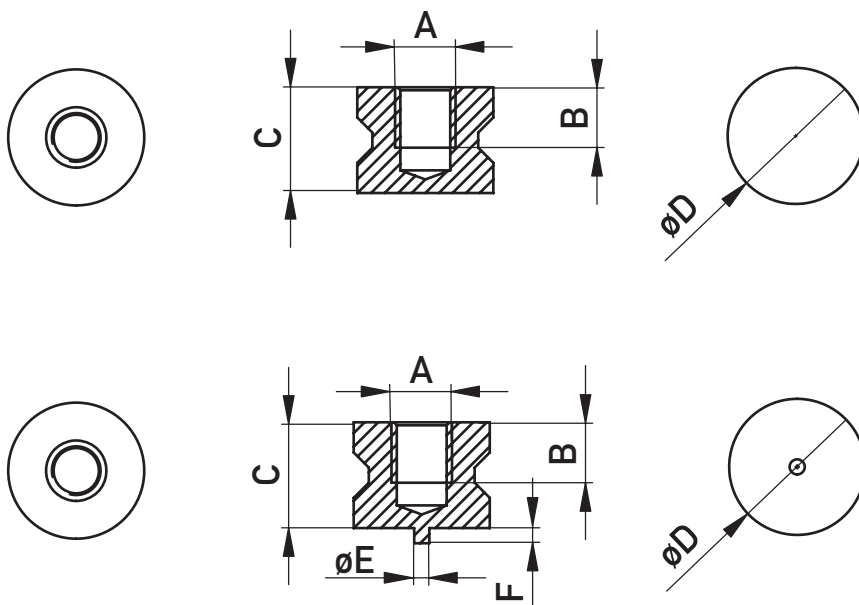
## SMD, FEMALE THREAD

### PRODUCT SPECIFICATION



- For soldering in SMT
- Available with and without peg
- Blistered for fully automated assembly
- PCB connection for fixing cable lugs
- UNC thread or customer specific modifications on demand

### DIMENSIONAL DRAWINGS



# PowerElements

## SMD, FEMALE THREAD

### ORDERING INFORMATION

A	B	C	D	E	F	Mounting Peg	Part Number
M3	3.5	6	7	–	–	0	225856
M4	4	7	9	–	–	0	225857
M5	4	7	9	–	–	0	225858
M6	6.5	10.5	10	–	–	0	225859
M8	8	13.5	13	–	–	0	225860
M10	11	17.5	16	–	–	0	225861
M3	3.5	6	7	1	1	1	225868
M4	4	7	9	1	1	1	225869
M5	4	7	9	1	1	1	225870
M6	6.5	10.5	10	1	1	1	225871
M8	8	13.5	13	1	1	1	225872
M10	11	17.5	16	1	1	1	225873

Dimension B - F in mm

# PowerElements

## SMD, FEMALE THREAD THROUGHOUT —



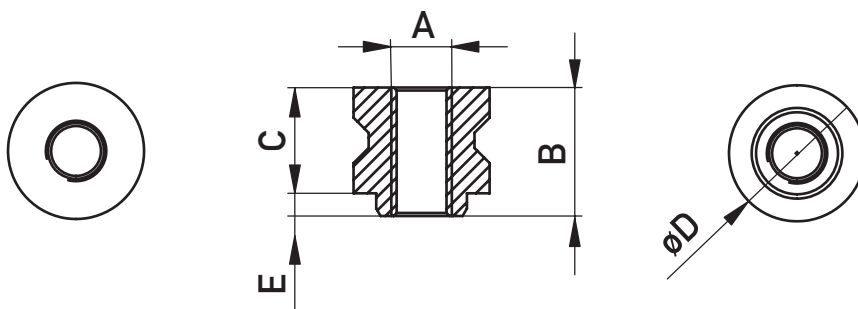
### PRODUCT SPECIFICATION



- For soldering in SMT
- Available with and without peg
- Blistered for fully automated assembly
- PCB connection for fixing cable lugs
- UNC thread or customer specific modifications on demand



### DIMENSIONAL DRAWINGS



# PowerElements

## SMD, FEMALE THREAD THROUGHOUT

### ORDERING INFORMATION

A	B	C	D	E	Mounting Peg	Part Number
M3	7.5	6	7	1.5		225874
M4	8.5	7	9	1.5		225875
M5	8.5	7	9	1.5		225876
M6	13	11.5	13	1.5		225877
M8	15	13.5	13	1.5		225878
M10	19	17.5	16	1.5		225879

Dimension B - E in mm

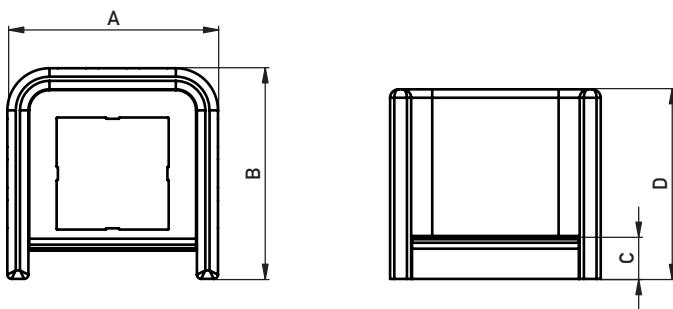
## TWISTED AND CONTACT PROTECTION FOR MALE POWER ELEMENTS

### PRODUCT SPECIFICATION



- For placement particularly on the PowerElement pins
- To prevent short circuits to nearby components
- As protection against contact
- Smaller distances between two power elements in layout is feasible

### DIMENSIONAL DRAWINGS



### ORDERING INFORMATION

A	B	C	D	Usage	Part Number
16	16	2	9.5	with Power Element 225675	225794
18	18	2.5	14.5	with Power Element 225676 and 225677	225795
25	25	5	22.5	with Power Element 225678 and 225679	225796
30	30	7	26	with Power Element 225680	225797

Dimension A - D in mm

## BESTELNUMMERNVERZEICHNIS

Part Number	Page
225414	9
225415	9
225416	9
225417	9
225675	11
225676	11
225677	11
225678	11
225679	11
225680	11
225681	13
225682	13
225683	13
225684	13
225685	13
225686	13
225687	17
225688	17
225689	17
225690	17
225691	17
225692	17
225693	15
225694	15
225695	15
225696	15

Part Number	Page
225697	15
225698	15
225699	19
225700	19
225701	19
225702	19
225703	19
225704	19
225705	19
225706	19
225707	19
225708	19
225709	19
225710	19
225711	21
225712	21
225713	21
225714	21
225715	21
225716	21
225717	21
225718	21
225719	21
225720	21
225721	21
225722	21

## BESTELNUMMERNVERZEICHNIS

Part Number	Page
225723	27
225724	27
225725	27
225726	25
225727	25
225728	25
225729	25
225730	29
225731	29
225732	29
225733	29
225734	29
225735	29
225736	29
225737	29
225738	29
225739	31
225740	31
225741	31
225742	31
225743	31
225744	31
225745	31
225746	31
225747	31
225748	31

Part Number	Page
225750	31
225751	33
225752	33
225753	33
225754	33
225755	33
225756	33
225757	33
225758	33
225759	33
225760	33
225761	33
225762	33
225763	29
225764	29
225765	31
225766	33
225767	29
225777	11
225784	19
225794	41
225795	41
225796	41
225797	41
225804	11
225850	35



# PowerElements

## BESTELNUMMERNVERZEICHNIS

Part Number	Page
225851	35
225852	35
225853	35
225854	35
225855	35
225856	37
225857	37
225858	37
225859	37
225860	37
225861	37
225862	35
225863	35
225864	35
225865	35
225866	35

Part Number	Page
225867	35
225868	37
225869	37
225870	37
225871	37
225872	37
225873	37
225874	39
225875	39
225876	39
225877	39
225878	39
225879	39
225887	23
225888	23
225898	11





**ERNI Electronics GmbH & Co. KG**

Seestrasse 9  
73099 Adelberg  
Germany  
Tel +49 7166 50-0  
Fax +49 7166 50-282  
info@erni.com  
www.erni.com

**Europe South America Africa**

**ERNI Electronics, Inc.**

2201 Westwood Ave  
Richmond, VA 23230/USA  
Tel +1 804 228-4100  
Fax +1 804 228-4099  
info@erni.us

**North America Canada Mexico**

**ERNI Asia Holding Pte Ltd.**

23A Serangoon North Avenue 5  
#04-11  
Singapore 554369  
Tel +65 6 555 5885  
Fax +65 6 555 5995  
info@erni-asia.com

**Asia Australia New Zealand**

© ERNI Electronics GmbH & Co. KG 2017 • Printed in Germany • A policy of continuous improvement is followed and the right to alter any published data without notice is reserved.

ERNI®, ERNI WoR&D®, Act. Connect. Perfect®, MicroCon®, MicroStac®, MicroSpeed®, MiniBridge®, MaxiBridge®, ERmet®, ERmet ZD®, ERmet ZDplus®, ERmet ZD HD®, ERbic®, ERNIPRESS®, INTERact®, BLUEcontact® and WHITEspeed® are trademarks (registered or applied for in various countries) of ERNI Electronics GmbH & Co. KG.