





#### **CHARACTERISTICS** —

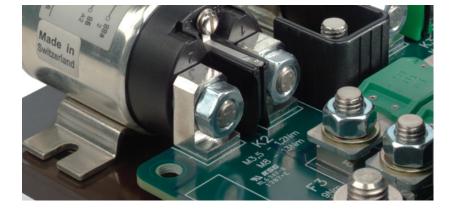
#### **APPLICATION EXAMPLES**



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)







#### MASSIVE PRESSFIT ZONE / CHARACTERISTICS -

#### **GENERAL TECHNICAL DATA**

**Current carrying capability per PowerElement** 

Tightening torque M3/M4/M5/M6/M8/M10/M12

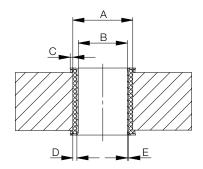
**Operating temperature** 

Approx. 10 A per pin

0.5 Nm / 1.2 Nm / 2.2 Nm / 3.9 Nm / 9.0 Nm / 17.0 Nm / 35.0 Nm

-40°C to +135°C

#### **DRILL HOLE SPECIFICATIONS**



	Surface	А	В	С	D	Е
Massive pressfit zone	Immersion tin	ø 1.6 -0.03	ø 1.475 ±0.05	0.1 min.	Cu 25 µm min. Cu 60 µm max.	
	HAL lead free	ø 1.6 -0.03	ø 1.45 ±0.05	0.1 min.	Cu 25 µm min. Cu 60 µm max.	

#### CALITION

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



## **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	
Want On	Female thread, full pin population			МЗ			M4 M5 M6		M8	M10	
	Female thread, two rows pin population	M3	M4 M5 M6		M8	M10					
Magnin III	Female thread, circular pin population		M2,5			M4 M5	M6 M8	M10			
land la	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	
<b>p</b> .	Protection for PowerElements with male thread	Suitable for M3, M4, M5, M6, M8, M10									



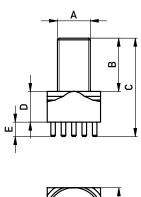
# MASSIVE PRESSFIT ZONE, MALE THREAD AND FULL PIN POPULATION

#### PRODUCT SPECIFICATION

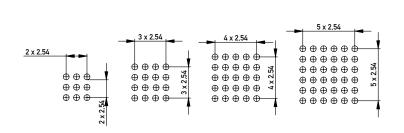


- PCB connection for fixing cable lugs
- Fixing midi or mega fuses on the PCB
- UNC thread or customer specific modifications on demand

#### **DIMENSIONAL DRAWINGS**







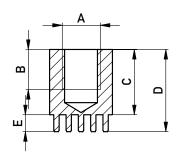


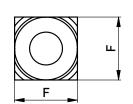
#### FEMALE THREAD AND FULL PIN POPULATION —

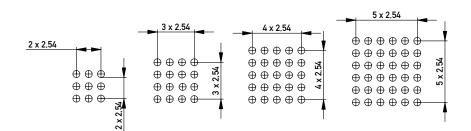
#### PRODUCT SPECIFICATION



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







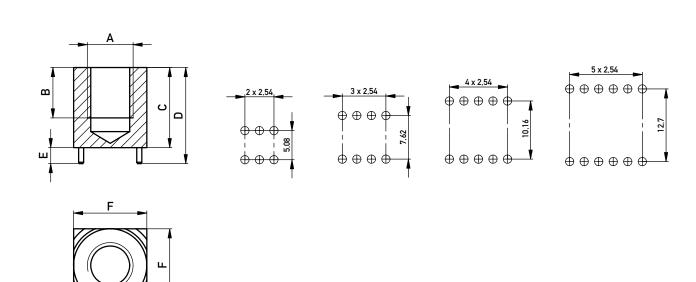


#### FEMALE THREAD AND TWO ROWS PIN POPULATION —

#### **PRODUCT SPECIFICATION**



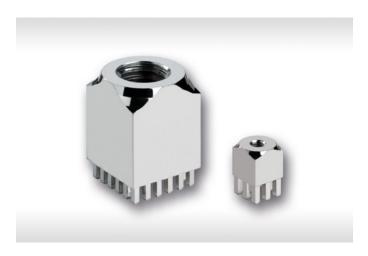
- PCB connection for fixing cable lugs
- Available with continuous thread
- Fixing midi or mega fuses on the PCB
- When smaller pressfit forces are required
- When the layout does not permit full pin population
- UNC thread or customer specific modifications on demand



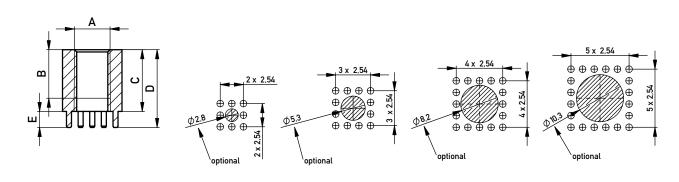


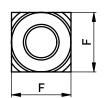
## FEMALE THREAD AND CIRCULAR PIN POPULATION —

#### **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





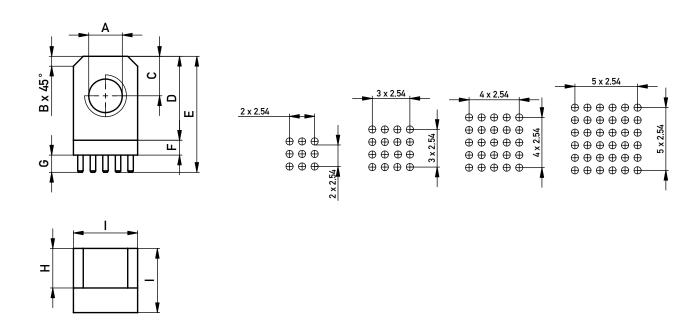


# ANGLED, FULL PIN POPULATION —

#### **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



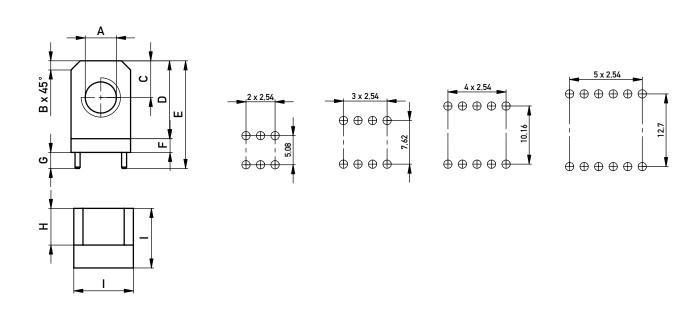


# ANGLED, TWO ROW PIN POPULATION —

#### **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



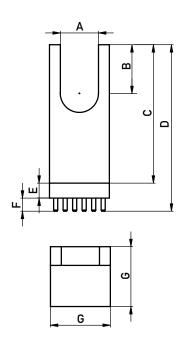


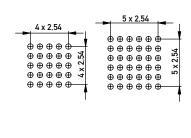
# ANGLED, U-PROFILE, FULL PIN POPULATION

#### 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

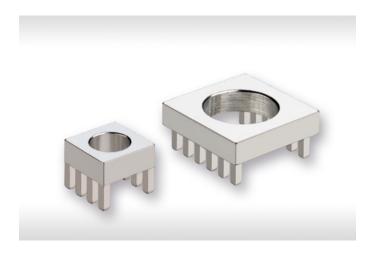




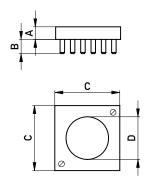


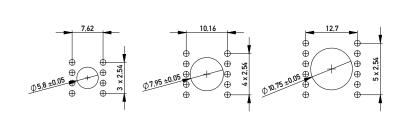
# TWO-PART, BASE-PART, TWO ROW PIN POPULATION

#### 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

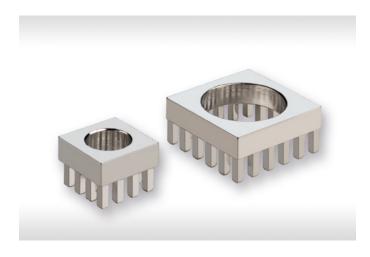




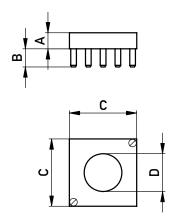


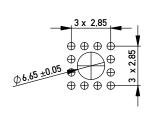
# TWO-PART, BASE-PART, CIRCULAR PIN POPULATION

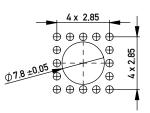
#### PRODUCT SPECIFICATION

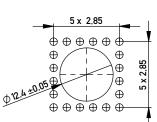


- PCB connection for fixing cable lugs
- Fixing of large heavy components (e.g. battery disconnection switch)
- Protecting PCB from mechanical stress
- Pitch 2,85 mm









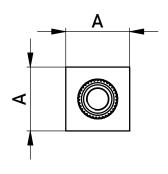


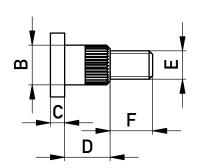
# TWO-PART, MALE THREAD —

#### 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





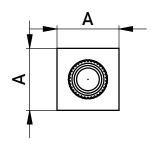


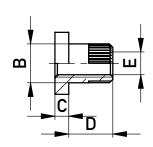
# TWO-PART, FEMALE THREAD —

#### 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





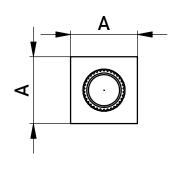


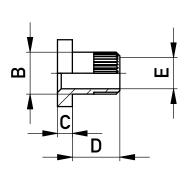
# TWO-PART, FEMALE THROUGH-HOLE

#### 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





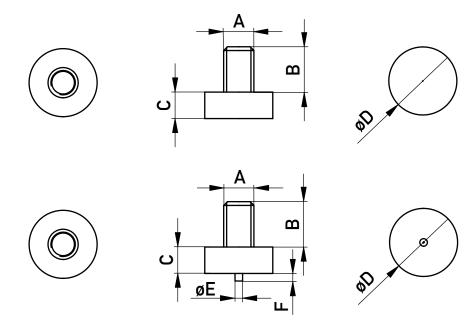


# SMD, MALE THREAD —

#### 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



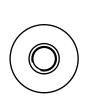


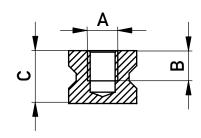
# SMD, FEMALE THREAD —

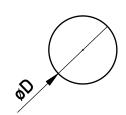
#### PRODUCT SPECIFICATION



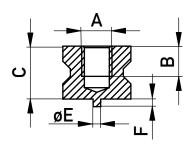
- For soldering in SMT
- Available with and without peg
- Partially blistered for fully automated assembly
- PCB connection for fixing cable lugs
- UNC thread or customer specific modifications on demand

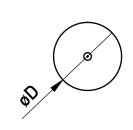














# SMD, FEMALE THREAD THROUGHOUT -

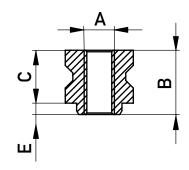
#### PRODUCT SPECIFICATION

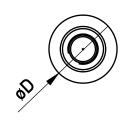


- For soldering in SMT
- Available with and without peg
- Blistered for fully automated assembly
- PCB connection for fixing cable lugs
- UNC thread or customer specific modifications on demand

#### **DIMENSIONAL DRAWINGS**









## TWISTED AND CONTACT PROTECTION FOR MALE POWER ELEMENTS

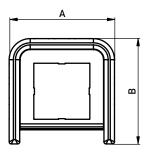
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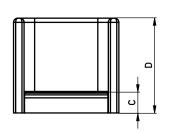




- For placement particularly on the PowerElement pins
- To prevent short circuits to nearby components
- As protection against contact
- Smaller distances between two power elements in layout is feasible

#### **DIMENSIONAL DRAWINGS**









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