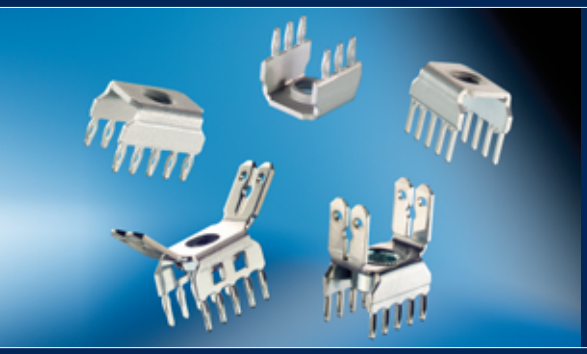

2.54 mm Power Taps for Backplanes

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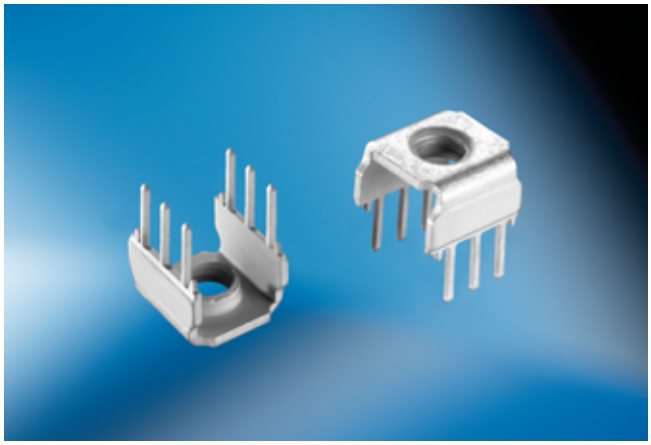
Table of Contents

2.54 mm Power Taps for Backplanes
Electrical and Mechanical Characteristics

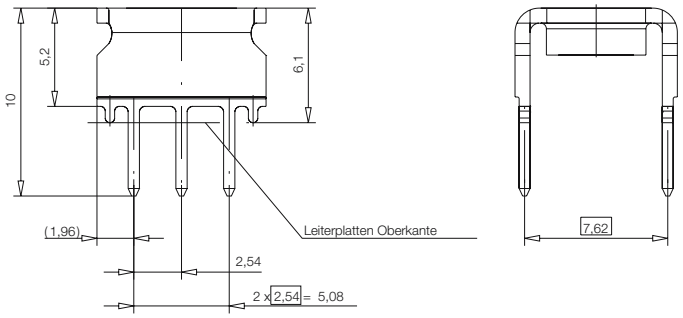
	Standard	6 pin Version	10 pin Version
Number of Pins		6	10
Technical data			
Climate Category	DIN EN 60068-1 test b	-55/125/56	-55/125/56
Bearing and operating temperature area		-55/125 °C	-55/125 °C
Current rating	IEC60512 test 5b	by ambient temperature: 20°C 40 A 70°C 24 A 100°C 8 A The operatig current is determined by characteristics of the PCB and the cable termination.	by ambient temperature: 20°C 40 A 70°C 24 A 100°C 8 A The operatig current is determined by characteristics of the PCB and the cable termination.
Process-conditions			
Solder temperature max.	IEC 68-2-20		
Hand soldering temperature max.		3.5 s at 350 °C	3.5 s at 350 °C
Dip soldering temperature max.		10 s at 260 °C	10 s at 260 °C
Warning		Soldering of pressfit connectors not to be recommended.	Soldering of pressfit connectors not to be recommended.
Contact and mating area			
Base material		Cu alloy	Cu alloy
Plating		Sn	Sn
Transfer area			
Base material		Cu alloy	Cu alloy
Plating		Sn	Sn
Environment compatibility			
Recycling		Easy recycling	Easy recycling
Assembly information			
Max. tightening torque M3		0.5 Nm	0.5 Nm
Max. tightening torque M4		1.2 Nm	1.2 Nm
Max. tightening torque 6-32 UNC		0.5 Nm	0.5 Nm
Max. tightening torque 8-32 UNC		1.2 Nm	1.2 Nm
		For assembly scheme see page 14.	For assembly scheme see page 14.

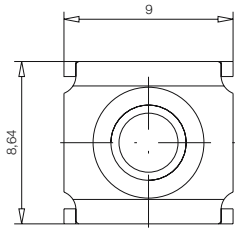
2.54 mm Power Taps for Backplanes
6 pin with Screw Mount Terminal, Solder



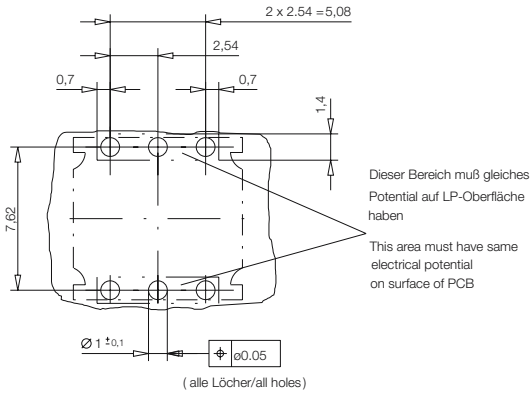
The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 6 pin version has three solder pins per row with a two-row PCB layout.
The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected with a screw mount terminal accomodating M3, M4, 6-32UNC or 8-32UNC screws.

Dimensional Drawings





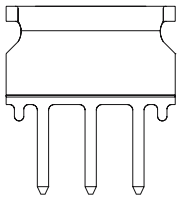
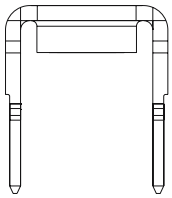
Leiterplattenbohrbild
PCB drillhole pattern



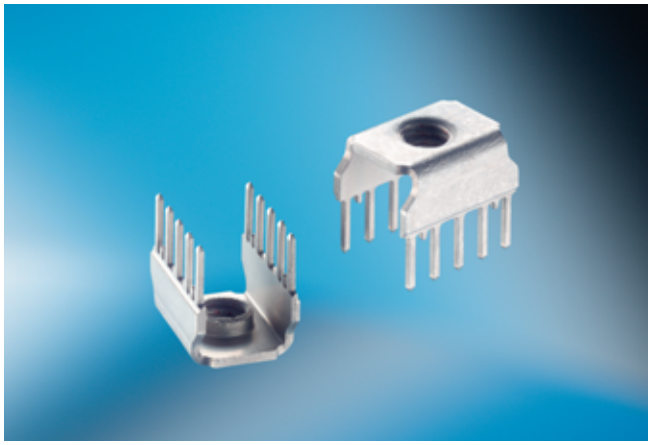
All dimensions in mm

2.54 mm Power Taps for Backplanes
6 pin with Screw Mount Terminal, Solder

Ordering Information

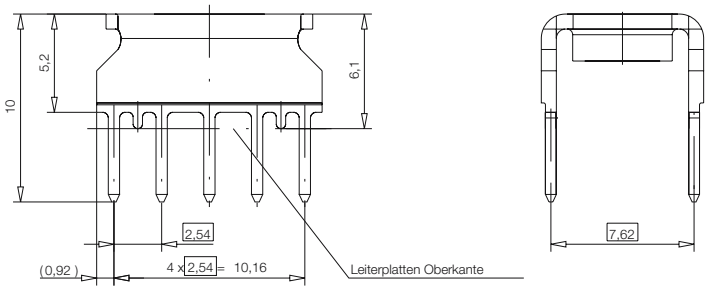
Configuration	Termination	No. of Pins	Height	Part Number
				
6 pin Version; M3	Solder	6	10 mm	**214801**
6 pin Version; M4	Solder	6	10 mm	**214788**
6 pin Version; 6-32UNC	Solder	6	10 mm	**214802**
6 pin Version; 8-32UNC	Solder	6	10 mm	**214803**

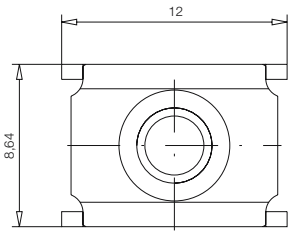
2.54 mm Power Taps for Backplanes
10 pin with Screw Mount Terminal, Solder



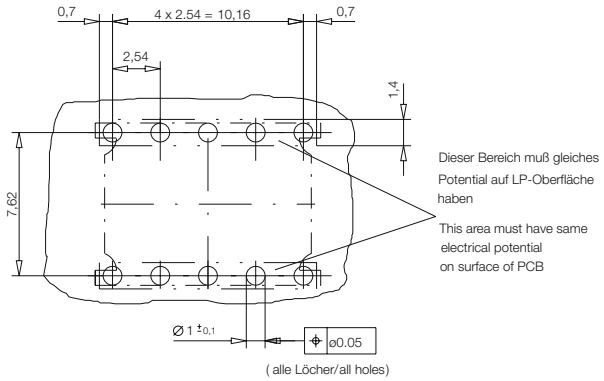
The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five solder pins per row with a two-row PCB layout.
The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected with a screw mount terminal accomodating M3, M4, 6-32UNC or 8-32UNC screws.

Dimensional Drawings





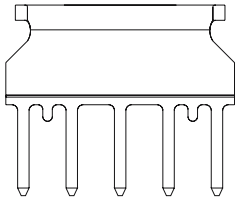
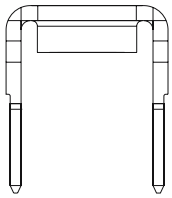
Leiterplattenbohrbild
PCB drillhole pattern



All dimensions in mm

2.54 mm Power Taps for Backplanes
10 pin with Screw Mount Terminal, Solder

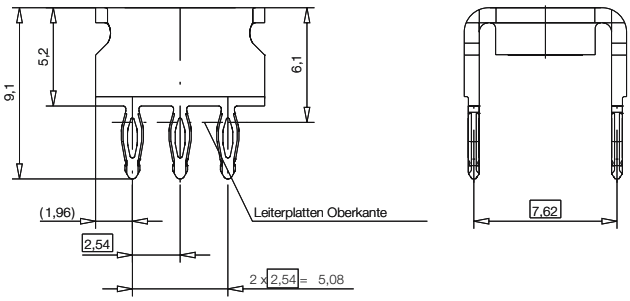
Ordering Information

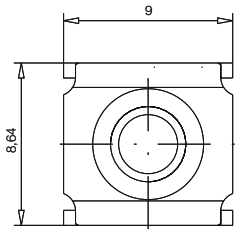
Configuration	Termination	No. of Pins	Height	Part Number
				
10 pin Version; M3	Solder	10	10 mm	**214785**
10 pin Version; M4	Solder	10	10 mm	**214786**
10 pin Version; 6-32UNC	Solder	10	10 mm	**214784**
10 pin Version; 8-32UNC	Solder	10	10 mm	**214783**

2.54 mm Power Taps for Backplanes
6 pin with Screw Mount Terminal, Pressfit

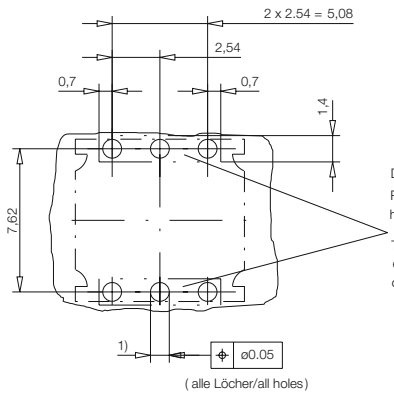
The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 6 pin version has three pressfit pins per row with a two-row PCB layout.
The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected with a screw mount terminal accomodating M3, M4, 6-32UNC or 8-32UNC screws.

Dimensional Drawings





Leiterplattenbohrbild
PCB drillhole pattern



Dieser Bereich muß gleiches Potential auf LP-Oberfläche haben

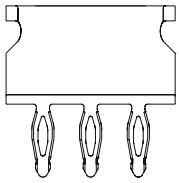
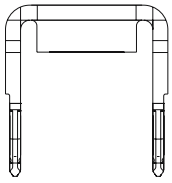
This area must have same electrical potential on surface of PCB

1) ø 1,0 $^{+0,09}_{-0,06}$ Durchmesser des metallisierten Loches
ø 1,0 $^{+0,09}_{-0,06}$ Diameter of finished plated-through hole
ø 1,15 $^{\pm 0,025}$ Bohrungsdurchmesser des Loches
ø 1,15 $^{\pm 0,025}$ Diameter of drilled hole

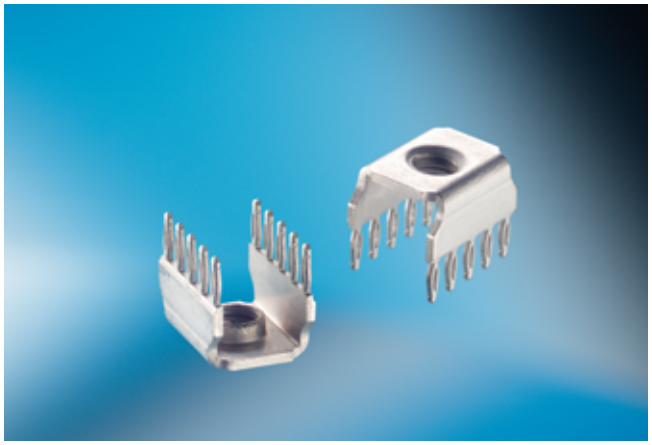
All dimensions in mm

2.54 mm Power Taps for Backplanes
6 pin with Screw Mount Terminal, Pressfit

Ordering Information

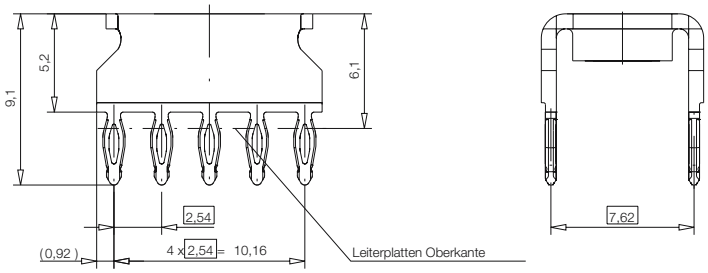
Configuration	Termination	No. of Pins	Height	Part Number
				
6 pin Version; M3	Pressfit	6	9.1 mm	**214796**
6 pin Version; M4	Pressfit	6	9.1 mm	**214787**
6 pin Version; 6-32UNC	Pressfit	6	9.1 mm	**214797**
6 pin Version; 8-32UNC	Pressfit	6	9.1 mm	**214798**

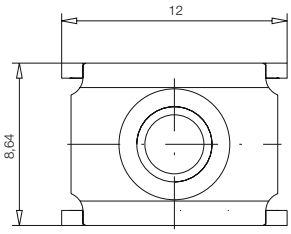
2.54 mm Power Taps for Backplanes
10 pin with Screw Mount Terminal, Pressfit



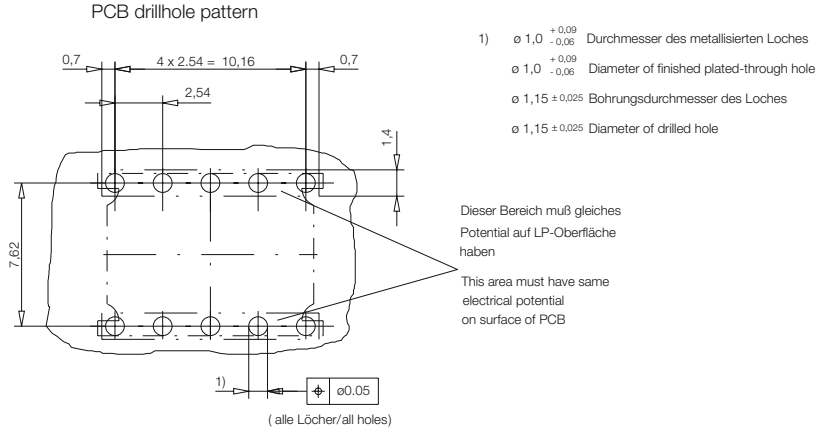
The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five pressfit pins per row with a two-row PCB layout.
The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected with a screw mount terminal accomodating M3, M4, 6-32UNC or 8-32UNC screws.

Dimensional Drawings





Leiterplattenbohrbild
PCB drillhole pattern



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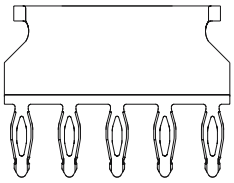
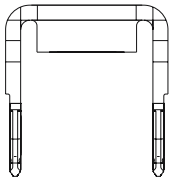
ø 1,15 $^{\pm 0,025}$ Diameter of drilled hole

All dimensions in mm

2.54 mm Power Taps for Backplanes
10 pin with Screw Mount Terminal, Pressfit

Ordering Information

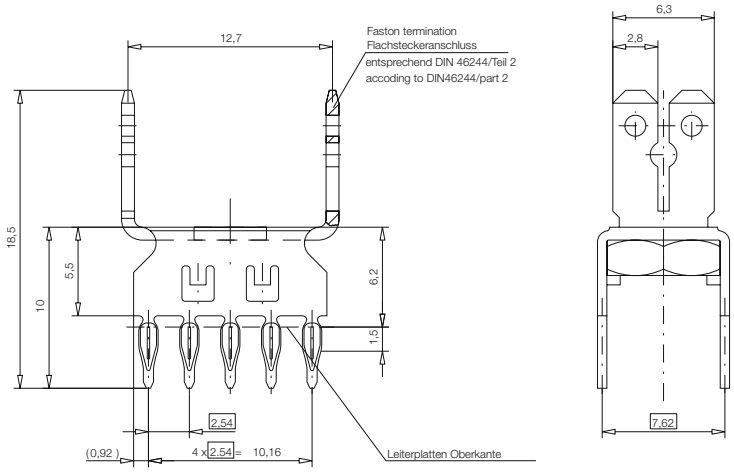
Configuration	Termination	No. of Pins	Height	Part Number
				
10 pin Version; M3	Pressfit	10	9.1 mm	**214781**
10 pin Version; M4	Pressfit	10	9.1 mm	**214782**
10 pin Version; 6-32UNC	Pressfit	10	9.1 mm	**214780**
10 pin Version; 8-32UNC	Pressfit	10	9.1 mm	**214779**

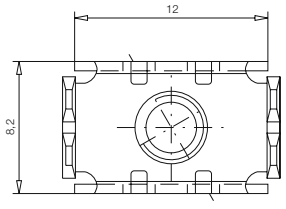
2.54 mm Power Taps for Backplanes
10 pin with Screw Mount and angled Slip-on Terminals, Pressfit

The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five pressfit pins per row with a two-row PCB layout.
The operating current is determined by characteristics of the PCB and the cable termination. This power supply cable can be connected through either slip-on pluggable terminals or a screw mount terminal.
The slip-on terminal is designed for two terminal sizes: 6.3 x 0.8 mm or 2.8 x 0.8 mm, per DIN 46244. The screw mount terminal accomodates an M4 screw.

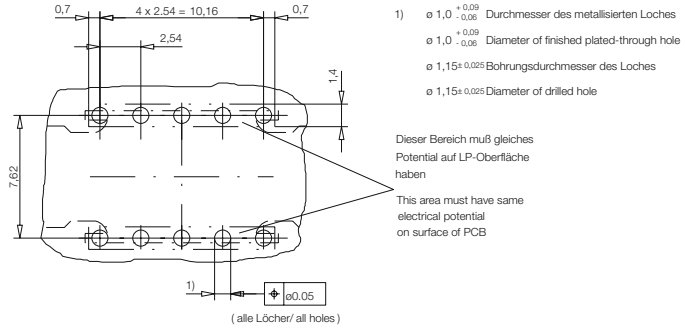
Dimensional Drawings

90° angled Slip-on





Leiterplattenbohrbild
PCB drillhole pattern

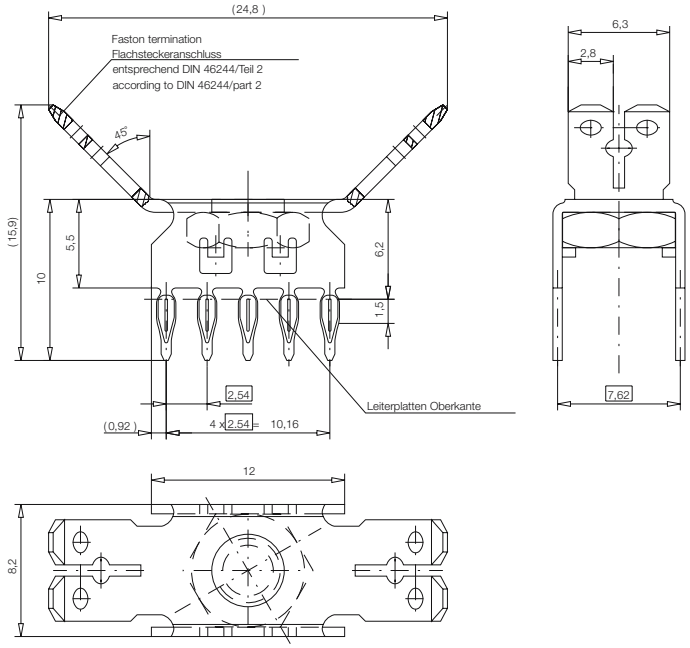


All dimensions in mm

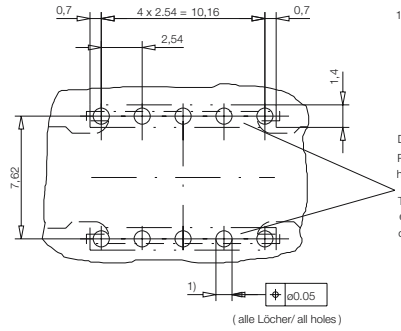
2.54 mm Power Taps for Backplanes
10 pin with Screw Mount and angled Slip-on Terminals, Pressfit

Dimensional Drawings

45° angled Slip-on



Leiterplattenbohrbild
PCB drillhole pattern



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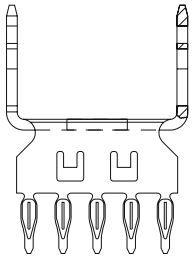
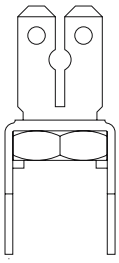
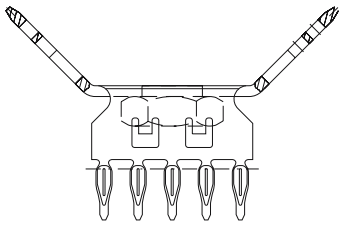
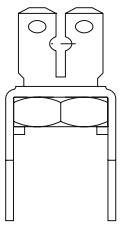
Dieser Bereich muß gleiches Potential auf LP-Oberfläche haben

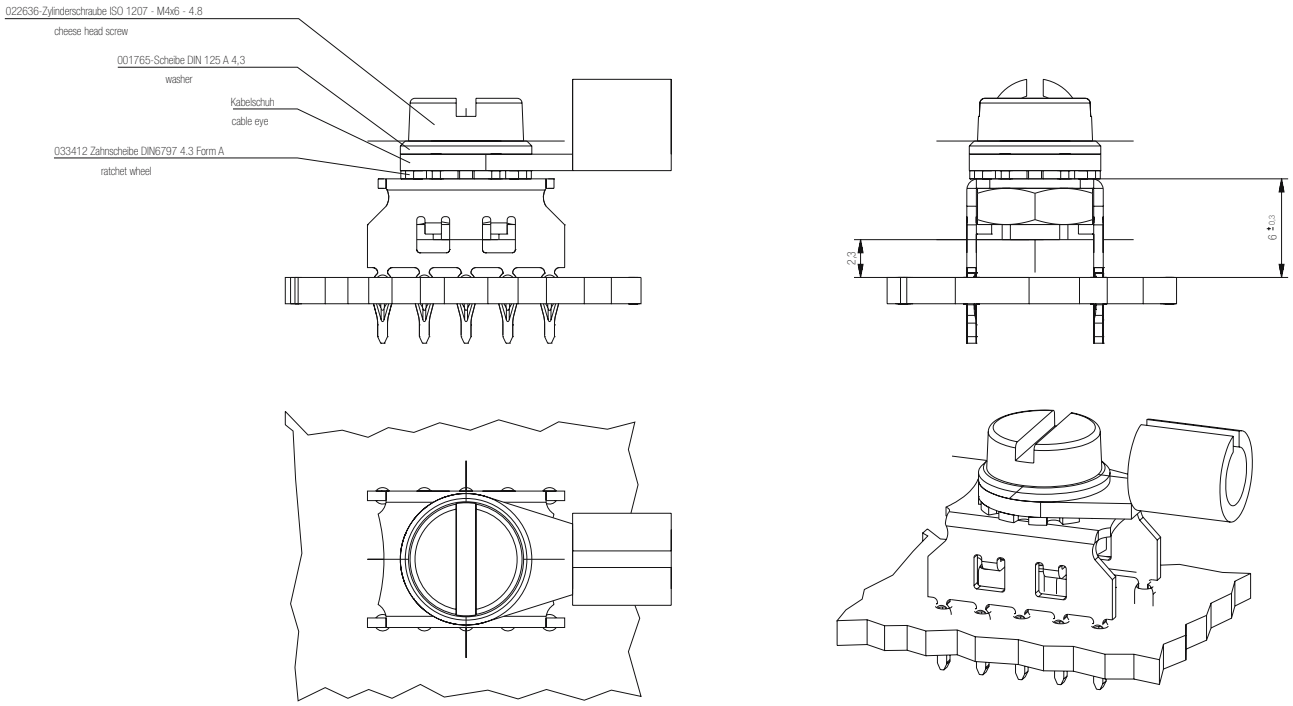
This area must have same electrical potential on surface of PCB

All dimensions in mm

Ordering Information

Configuration	Termination	No. of Pins	Height	Part Number
				
10 pin Version; without nut / 90° angled Slip-on	Pressfit	10	18.5 mm	**134989**
10 pin Version; M4 / 90° angled Slip-on	Pressfit	10	18.5 mm	**134990**
				
10 pin Version; M4 / 45° angled Slip-on	Pressfit	10	15.9 mm	**134999**

Assembly Scheme



Ordering Information

Description	Part Number
Cheese head screw M4x6 - 4.8 ISO 1207	**022636**
Washer A 4.3 DIN 125	**001765**
Star Washer A 4,3 DIN 6797	**033412**

Press-In-Tooling

Ordering Information

Description	Comment	Part Number
Upper Tool	With Quick Change	**471870**
Lower Tool	With Quick Change	**220140**

Part Number Index

Notes

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