

# Power Taps

for Backplanes







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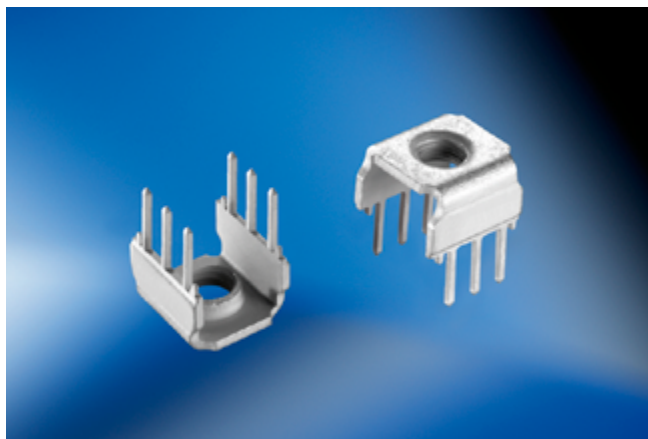
## 2.54 mm Power Taps for Backplanes

### Electrical and Mechanical Characteristics



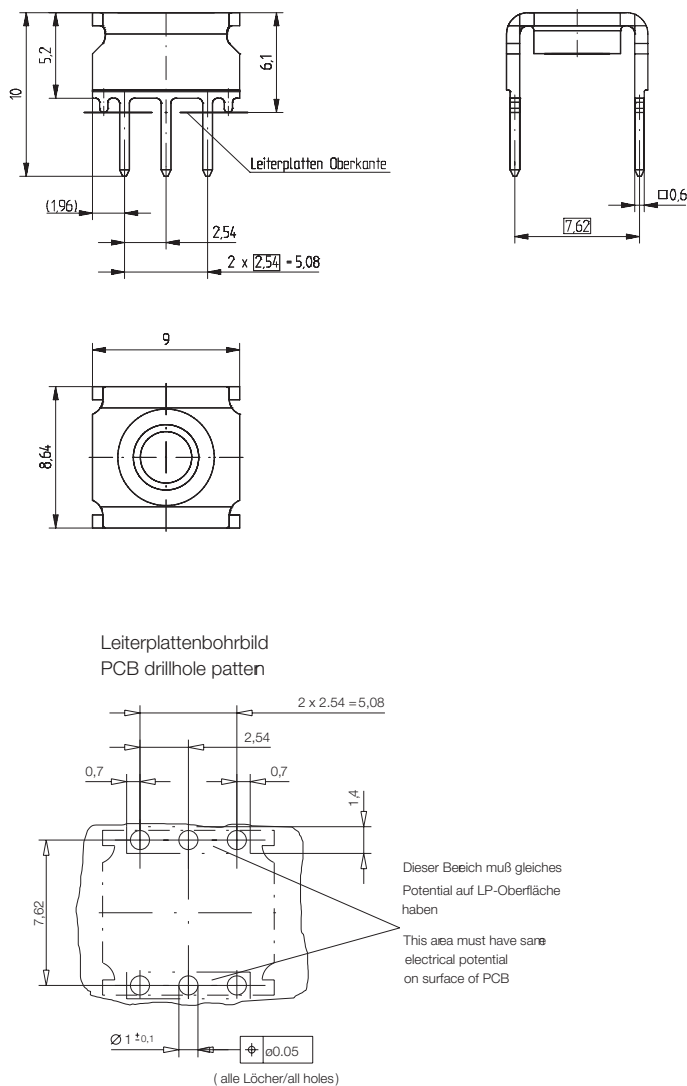
	<b>Standard</b>	<b>6 pin Version</b>	<b>10 pin Version</b>
Number of Pins		6	10
<b>Technical data</b>			
Climate Category	DIN EN 60068-1 test b	-55/125/56	-55/125/56
Bearing and operating temperature area		-55/125 °C	-55/125 °C
Current rating	IEC60512 test 5b	by ambient temperature: 20°C 40 A 70°C 24 A 100°C 8 A  The operatig current is deter- mined 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 deter- mined by characteristics of the PCB and the cable termination.
<b>Process-conditions</b>			
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.
<b>Contact and mating area</b>			
Base material		Cu alloy	Cu alloy
Plating		Sn	Sn
<b>Transfer area</b>			
Base material		Cu alloy	Cu alloy
Plating		Sn	Sn
<b>Environment compatibility</b>			
Recycling		Easy recycling	Easy recycling
<b>Assembly information</b>			
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

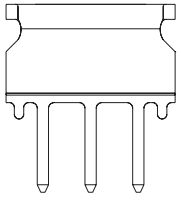
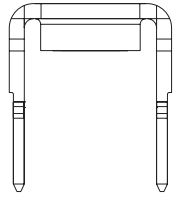


All dimensions in mm

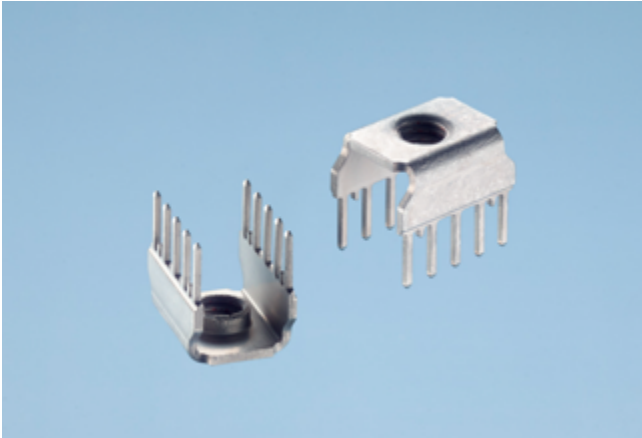
## 2.54 mm Power Taps for Backplanes 6 pin with Screw Mount Terminal, Solder



### Ordering Information

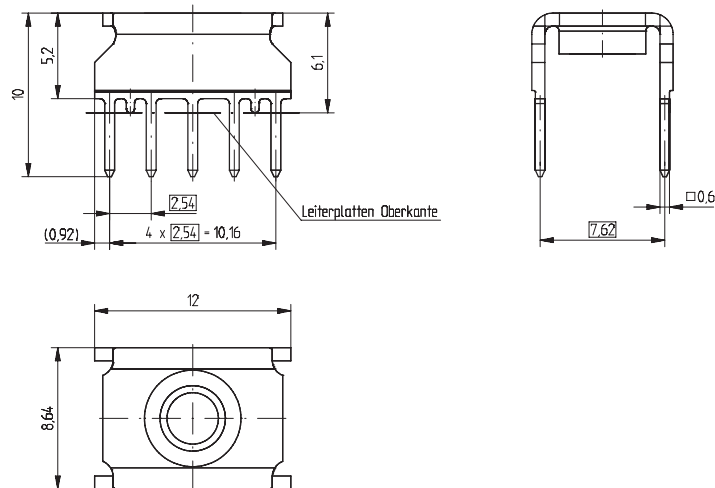
Configuration	Termination	No. of Pins	Height	Part Number
				
6 pin Version; M3	Solder	6	10 mm	<b>214801</b>
6 pin Version; M4	Solder	6	10 mm	<b>214788</b>
6 pin Version; 6-32UNC	Solder	6	10 mm	<b>214802</b>
6 pin Version; 8-32UNC	Solder	6	10 mm	<b>214803</b>

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

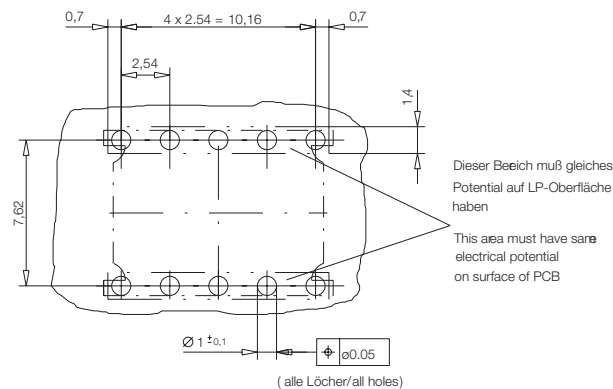


The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five solder pins per row with a two-row PCB layout. The operating current is determined by characteristics of the PCB and the cable 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 patten

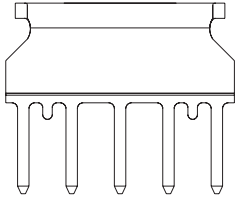
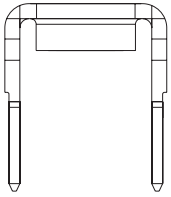


All dimensions in mm

## 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	<b>214785</b>
10 pin Version; M4	Solder	10	10 mm	<b>214786</b>
10 pin Version; 6-32UNC	Solder	10	10 mm	<b>214784</b>
10 pin Version; 8-32UNC	Solder	10	10 mm	<b>214783</b>

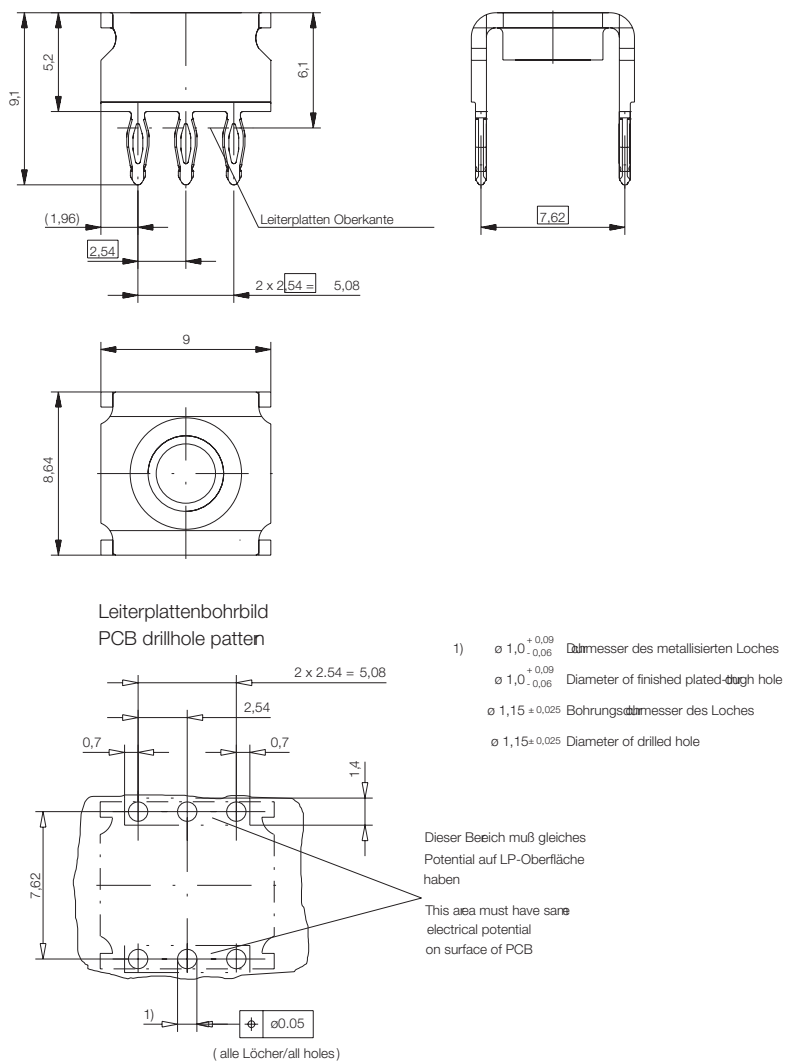


## 2.54 mm Power Taps for Backplanes 6 pin with Screw Mount Terminal, Pressfit



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

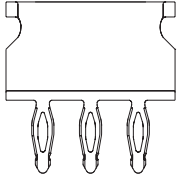
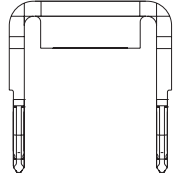


All dimensions in mm

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



### Ordering Information

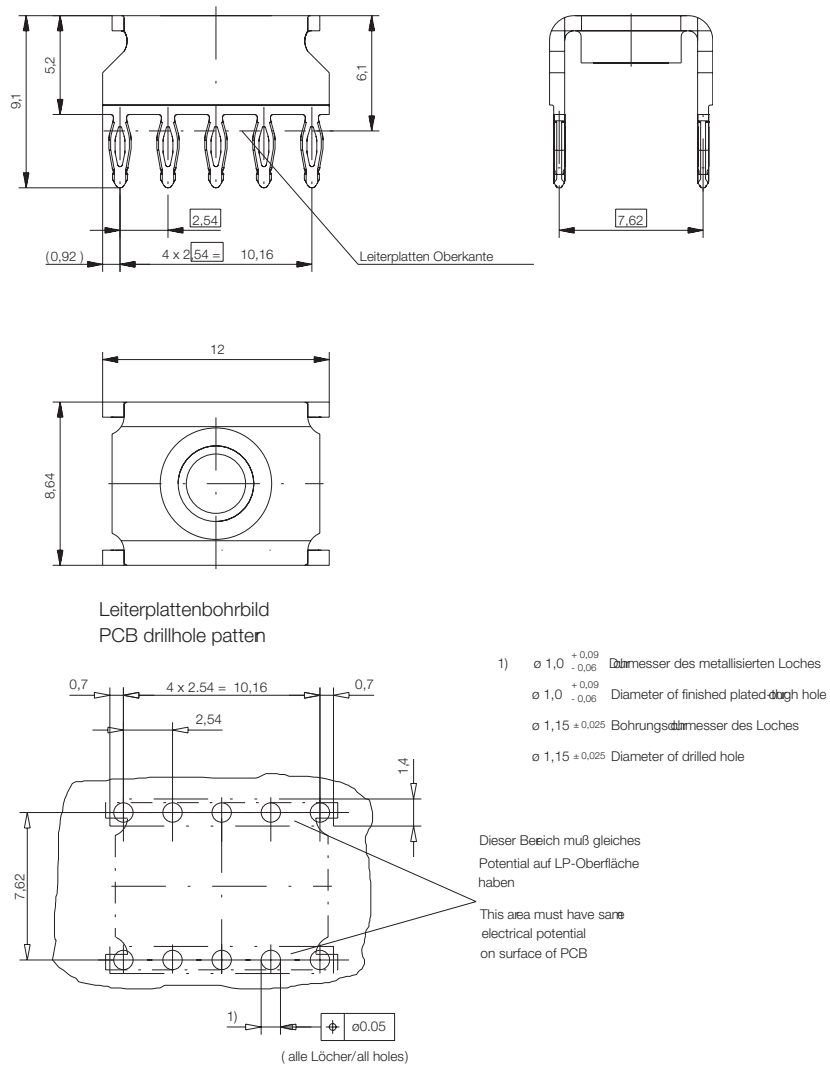
Configuration	Termination	No. of Pins	Height	Part Number
				
6 pin Version; M3	Pressfit	6	9.1 mm	<b>214796</b>
6 pin Version; M4	Pressfit	6	9.1 mm	<b>214787</b>
6 pin Version; 6-32UNC	Pressfit	6	9.1 mm	<b>214797</b>
6 pin Version; 8-32UNC	Pressfit	6	9.1 mm	<b>214798</b>

## 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

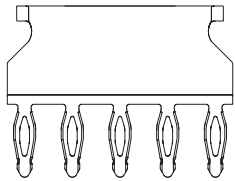
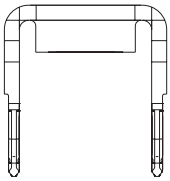


All dimensions in mm

## 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	<b>214781</b>
10 pin Version; M4	Pressfit	10	9.1 mm	<b>214782</b>
10 pin Version; 6-32UNC	Pressfit	10	9.1 mm	<b>214780</b>
10 pin Version; 8-32UNC	Pressfit	10	9.1 mm	<b>214779</b>

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



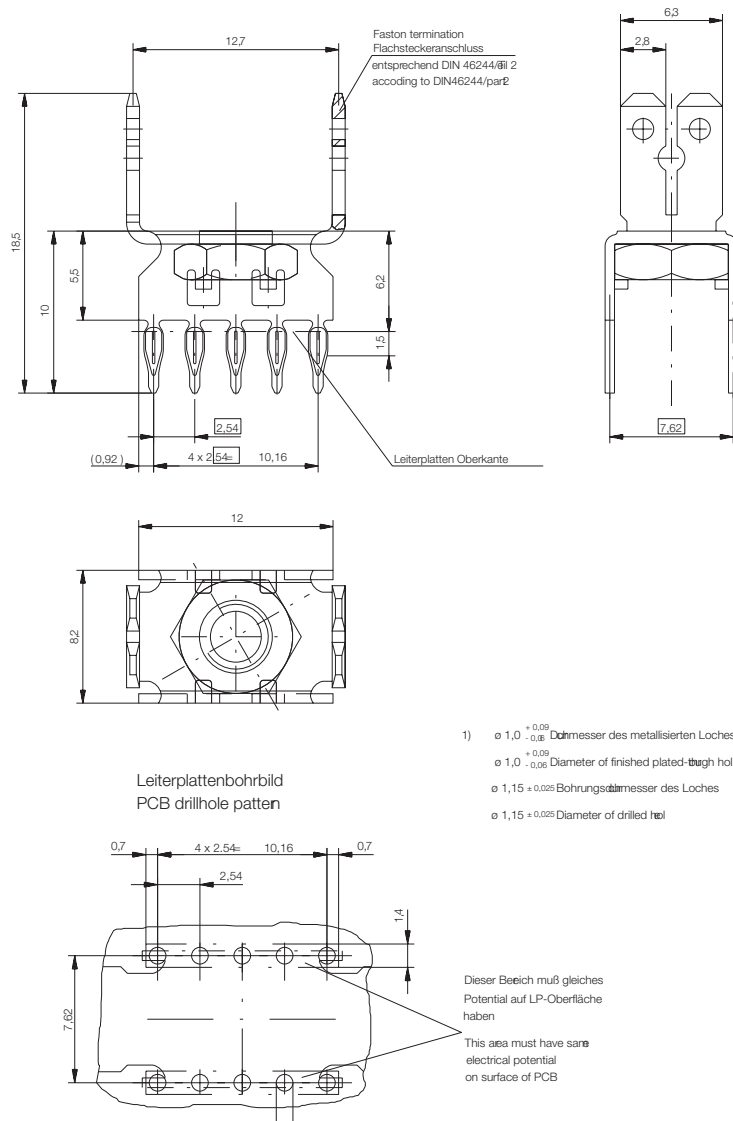
The ERNI Power Tap is designed to bring power to printed circuit board applications. It allows for wire-to-board connections with common terminals. The 10 pin version has five pressfit pins per row with a two-row PCB layout.

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 accommodates an M4 screw.

### Dimensional Drawings

#### 90° angled Slip-on

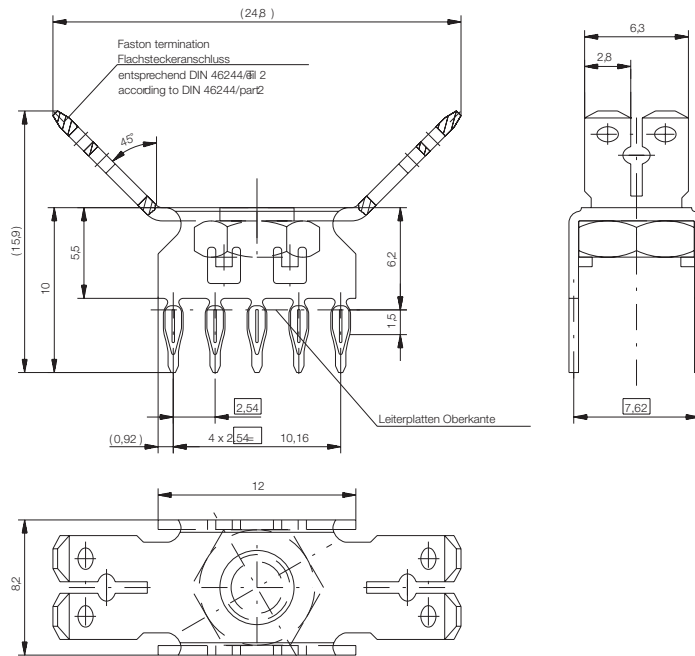


# 2.54 mm Power Taps for Backplanes 10 pin with Screw Mount and angled Slip-on Terminals, Pressfit

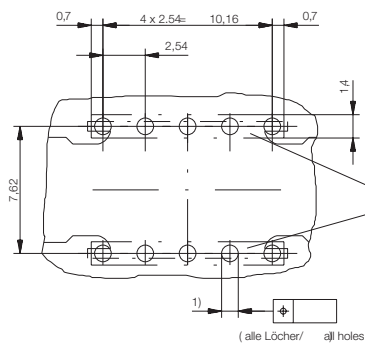


## Dimensional Drawings

### 45° angled Slip-on



Leiterplattenbohrbild  
PCB drillhole pattern



- 1)  $\varnothing 1,0^{+0,09}_{-0,08}$  Durchmesser des metallisierten Loches
- $\varnothing 1,0^{+0,09}_{-0,06}$  Diameter of finished plated through hole
- $\varnothing 1,15 \pm 0,025$  Bohrungsdiameter des Loches
- $\varnothing 1,15 \pm 0,025$  Diameter of drilled hole

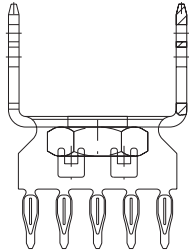
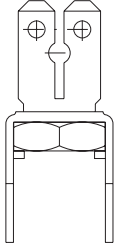
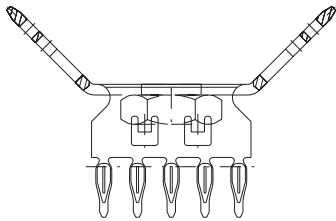
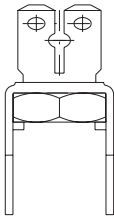
Dieser Bereich muß gleiches Potential auf LP-Oberfläche haben  
This area must have same electrical potential on surface of PCB

All dimensions in mm

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



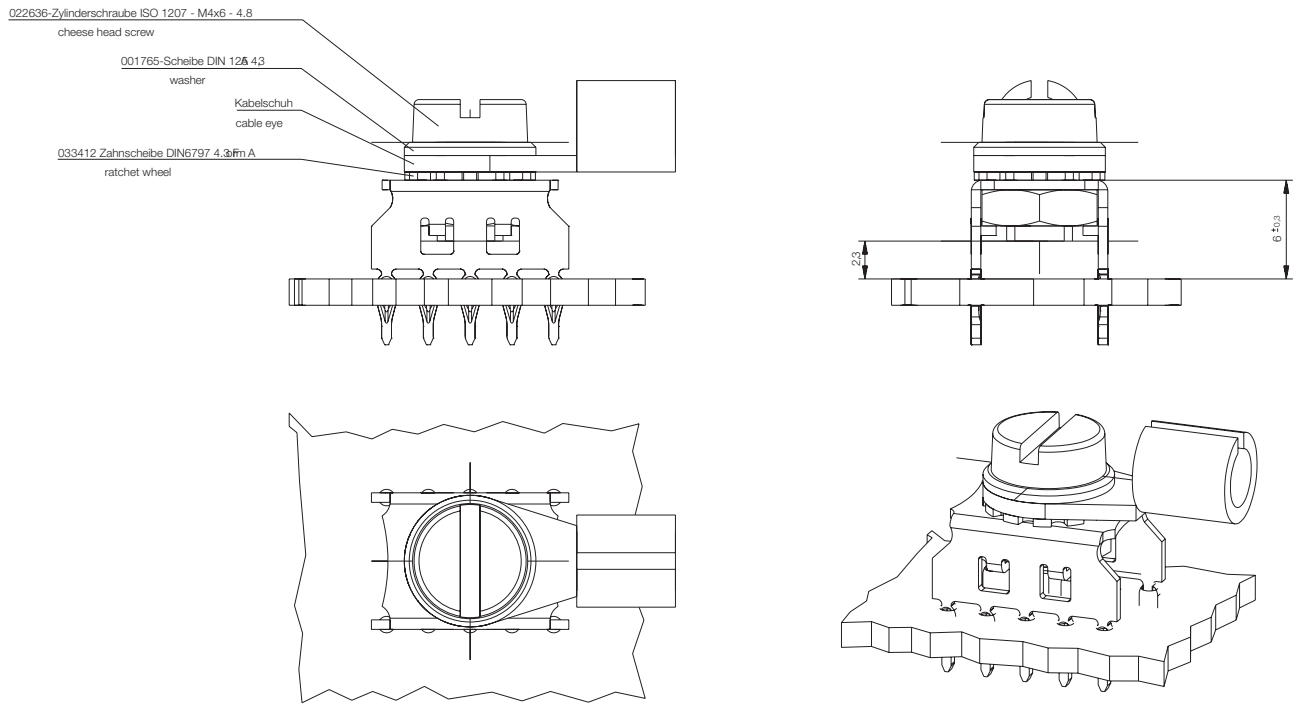
### Ordering Information

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

# 2.54 mm Power Taps for Backplanes Accessories



## 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

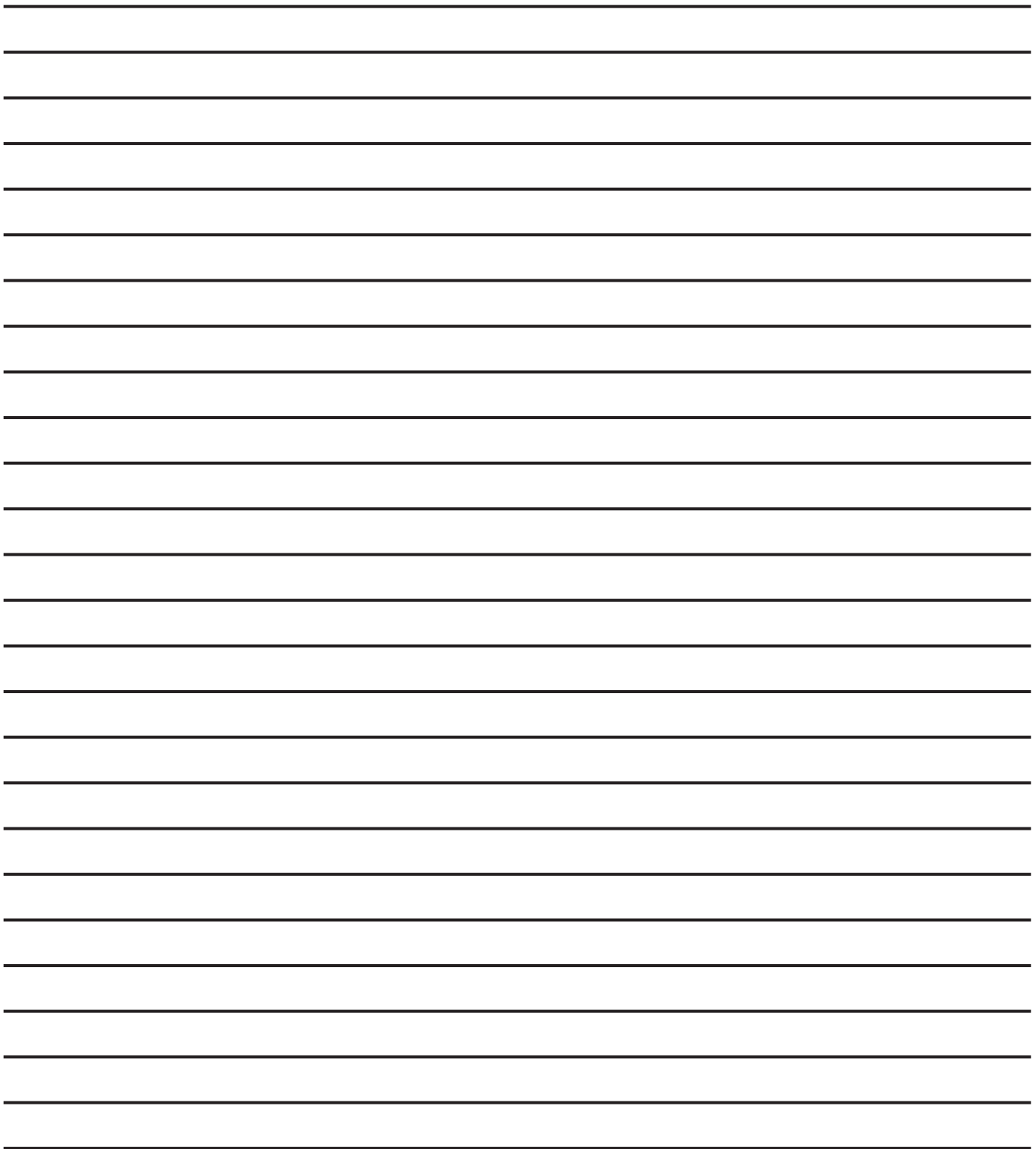
Description	Comment	Part Number
Upper Tool	With Quick Change	471870
Lower Tool	With Quick Change	220140





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214782 .....	10
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214785 .....	6
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214788 .....	4
214796 .....	8
214797 .....	8
214798 .....	8
214801 .....	4
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