

### General Description

The high current Press-Fit terminal blocks and spacers of the **PowerClamp** Series are designed for the solderless PCB or bus bar mount by the famous **SOFTPRESS** technique. This technology guarantees a very low contact resistance between the PCB and the **PowerClamp**. These **PowerClamp** components handle continuous currents from 100 up to 600 Amps and appear in different standard configurations:

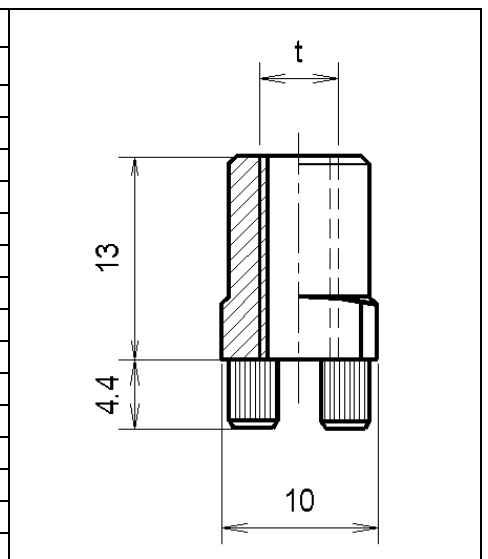
- N** - Series – terminal block with internal thread (nut) - (see this document)
- B** - Series – terminal block with external thread (bolt)
- L** - Series – terminal block with 90° mounting (horizontal thread or hole)
- H** - Series – spacer without thread (through hole spacer)
- D** - Series – spacer with double press-fit zone

Various accessories allow the enlargement of the applications (see *accessories* and *applications*)



### Technical Specifications

Metric thread	<b>N1004M</b>	<b>N1005M</b>
UNC thread	<b>N1004U</b>	<b>N1005U</b>
Current rating <sup>1)</sup>	<b>100 A</b>	
Metric thread size t	M4	M5
UNC thread size t	#8 - 32	#12 - 24
Max. torque	2.1 Nm / 1.6 lbf ft	4.2 Nm / 3.1 lbf ft
Max. insertion force (PCB)	600 N / 135 lbf	
Min. extraction force (PCB)	550 N / 125 lbf	
Material	CuZn40Pb2 / CW617N	
Contact surface <sup>2)</sup>	2 µ BroxAlloy	
Weight	7 g	7 g



<sup>1)</sup> The max. current depends on the PCB copper thickness.

<sup>2)</sup> On request other platings.

### Recommended PCB Configuration

for PCB configuration see DT0101  
[http://www.broxing.com/Applications/dt0101\\_plated\\_holes.pdf](http://www.broxing.com/Applications/dt0101_plated_holes.pdf)  
 PCB thickness: 1.5 – 3.2 mm  
 PCB Press-Fit Standards:  
 IEC 60352-5, DIN EN 60352-5

### PCB DRILLING PLAN

min. pad diameter: 140mils