

**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:

**B** - Series – terminal block with external thread (bolt) - (see this document)

**N** - Series – terminal block with internal thread (nut)

**L** - Series – terminal block with 90° mounting (horizontal thread or hole)

**H** - Series – spacer without thread (through hole spacer)

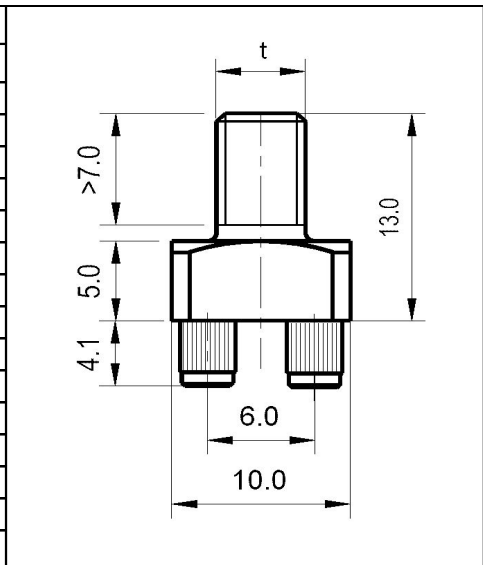
**D** - Series – spacer with double press-fit zone

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



**Technical Specifications**

Metric thread		<b>B1004M</b>	<b>B1005M</b>
UNC thread		<b>B1004U</b>	<b>B1005U</b>
Current rating <sup>1)</sup>		<b>100 A</b>	
Metric thread size	t	M4	M5
UNC thread size	t	#8 - 32	#12 - 24
Suggested tightening torque		2.1 Nm / 1.6 lbf ft	4.2 Nm / 3.1 lbf ft
Nom. insertion force (F4 1.6) <sup>2)</sup>		1'000 N / 270 lbf	
Nom. extraction force (FR4 1.6) <sup>2)</sup>		900 N / 250 lbf	
Material		CuZn40Pb2 / CW617N	
Plating <sup>3)</sup>		3 μ BroxAlloy	
Weight		4 g	5 g



<sup>1)</sup> The max. current depends on the PCB copper thickness. <sup>2)</sup> The force depends on the PCB Layup

<sup>3)</sup> On request other platings

**Recommended PCB Configuration**

for PCB configuration see AN0010  
<http://www.broxing.com/Applications/an0010.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