

# Product Data Sheet

ATCA Signal AMC B+,  
Part No. 512-23170-453



Illustration similar



Parallel



Press-fit



Direct Connector



High Speed

- with Peg
- 170 contacts
- Press-fit
- pitch 0.75 mm
- data transfer rate 12.5 Gbit/s
- according to PICMG specifications



» to product on [www.ept.de](http://www.ept.de)



» to product group Advanced TCA

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## Technical Specifications

### Basics

Specification	PICMG® AMC.0 R2.0
No. of Contacts	170
Termination Technology	Press-fit
Termination Length	2.0 mm
Operating Temperature Range	-55°C to +105°C

### Material

Insulator Material	LCP, UL 94 V-0
Contact Material	Copper alloy
Plating	PdNi + Au flash over Ni

### Mechanical

Pitch	0.75 mm
Mating Force	max. 100 N
Separating Force	max. 65 N
Durability	200 mating cycles

### Electrical

Operational Current	1.52 A @ 70°C max. 30°C temperature rise
Clearance and Creepage	min. 0.1 mm
Insulation Resistance	10 <sup>8</sup> Ω
Test Voltage	80 V r.m.s
Data Transfer Rate	12.5 Gbit/s
Impedance	100 Ω ± 10%

### Approval / Compliance

UL file	E130314
Environment	RoHS compliant

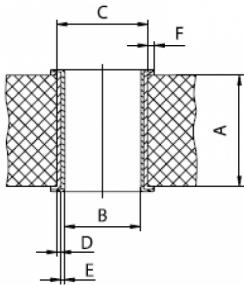
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## Hole Specifications

Plated through-hole according to IEC 60352-5



Material	chem. Sn printed circuit boards
<b>Nominal Hole</b>	<b>Ø 0.55 mm</b>
<b>A PCB Thickness</b>	min 1.44 mm
<b>B Plated Hole</b>	Ø 0.55 ±0.05 mm
<b>C Drill Hole</b>	0.64 ±0.01 mm
<b>D Cu Plating</b>	min. 25 µm
<b>E Surface</b>	imm. Sn plating, max. 1.5 µm
<b>F Annular Ring</b>	min. 0.15 mm

Material	Ni, Au printed circuit boards
<b>Nominal Hole</b>	<b>Ø 0.55 mm</b>
<b>A PCB Thickness</b>	min 1.44 mm
<b>B Plated Hole</b>	Ø 0.55 ±0.05 mm
<b>C Drill Hole</b>	0.64 ±0.01 mm
<b>D Cu Plating</b>	min. 25 µm
<b>E Surface</b>	Ni, Au plating, 0.05 - 0.2 µm Au over 2.5 - 5 µm Ni
<b>F Annular Ring</b>	min. 0.15 mm

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## Drawings

Component data in 2D and 3D format you can download here:

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)