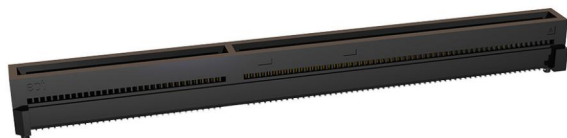
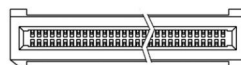


Product Data Sheet

EC.8, exactly 180p,
Part No. 408-52180-100-12



180 Pins



mit Kodierung / with key



Illustration similar



Perpendicular



SMT



Direct Connector



High Density



High Speed

- number of positions: 180
- with ckeying
- for 1.6 mm daughter cards
- pitch: 0.8 mm
- data rate: 28 Gbit/s
- tray Packaging



» to product on www.ept.de



» to product group EC.8 - 0.8 mm Edge Card

Product Data Sheet

EC.8, exactly 180p,
Part No. 408-52180-100-12



Technical Specifications

Basics

No. of Contacts	180
Termination Technology	SMT
Operating Temperature Range	-40°C to +125°C

Material

Insulator Material	LCP, UL 94 V-0
CTI value <i>IEC 60112</i>	200
Contact Material	copper alloy
Plating	gold over palladium-nickel over nickel
Termination area	tin over nickel

Mechanical

Pitch	0.8 mm
Mating Force per Pin	≤ 0.635 N
Separating Force per Pin	≥ 0.06 N
Durability <i>IEC 60512-9-1</i>	500 mating cycles
Coplanarity	≤ 0.1 mm
Vibration, sinusoidal <i>IEC 60512-6-4</i>	10–2000 Hz, 20 g
Contact mating problems if vibrations occur, sinusoidal <i>IEC 60512-2-5</i>	≤ 1 μ s
Shock, semi-sinusoidal <i>IEC 60512-6-3</i>	50 g, 11 ms
Contact mating problems if shock occur, semi-sinusoidal <i>IEC 60512-2-5</i>	≤ 1 μ s

Electrical

Operational Current <i>IEC 60512-5-2</i>	1.35 A at 20°C (140 of 140 pins) 3.20 A at 20°C (8 of 140 pins)
Test Voltage <i>IEC 60512-4-1</i>	1100 VDC
Contact Resistance <i>IEC 60512-2-1</i>	≤ 15 m Ω
Clearance and Creepage	0.25 mm
Insulation Resistance <i>IEC 60512-3-1</i>	≥ 1 G Ω
Data Transfer Rate	28 Gbit/s

Product Data Sheet

EC.8, exactly 180p,
Part No. 408-52180-100-12



Technical Specifications

Processing

Soldering Temperature	20–40 seconds at 260°C
<i>JEDEC J-STD-020E</i>	

MSL	1
<i>JEDEC J-STD-020E</i>	

Assembly	Pick and Place
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Approval / Compliance

UL file	E130314
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Environment	RoHS compliant
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Product Data Sheet

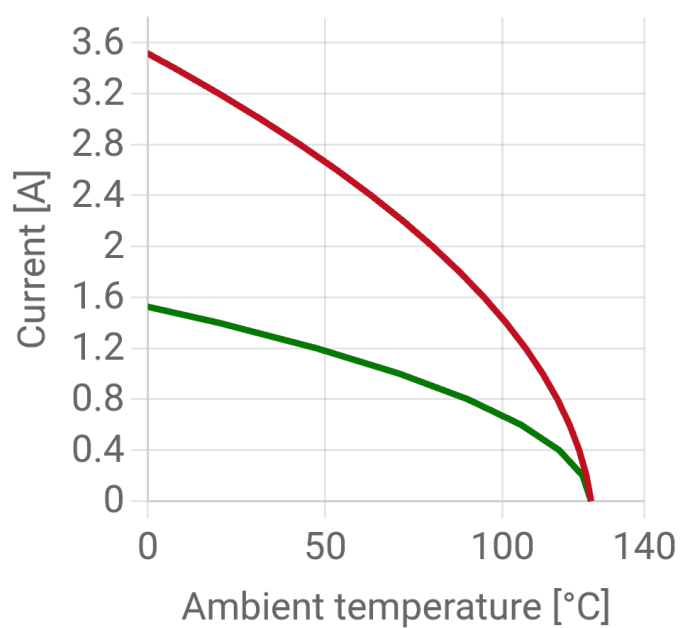
EC.8, exactly 180p,
Part No. 408-52180-100-12



Derating Diagram

EC.8

- Max. 3.2 A at 20°C (8 of 140 pins)
- Max. 1.4 A at 20 °C (140 of 140 pins)



Product Data Sheet

EC.8, exactly 180p,
Part No. 408-52180-100-12



Modifications

Available on request

- Tape-and-reel packaging

Drawings

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

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)