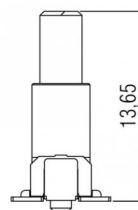
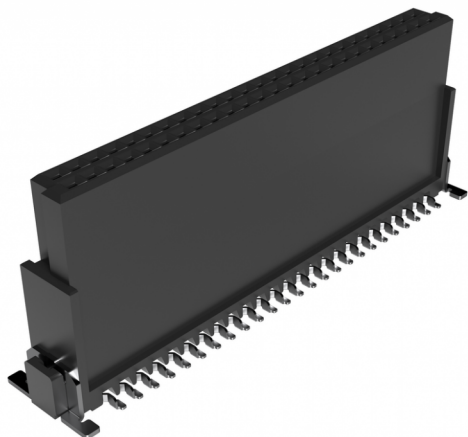


Product Data Sheet

One27 Female high-profile,
Part No. 404-54050-51



50 Pins

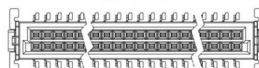


Illustration similar



Parallel



Perpendicular



SMT



High Density



Rugged

- 50 pins
- unmated stacking height: 13.65 mm
- for board-to-board distances from 15.4 to 20.0 mm
- SMT
- pitch 1.27 mm
- Performance level 1



» to product on www.ept.de



» to product group One27

Product Data Sheet

One27 Female high-profile,
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Technical Specifications

Basics

No. of Contacts	50
Termination Technology	SMT
Board-to-Board Distance	15.4 to 20.0 mm
Operating Temperature Range	-55°C to + 125°C

Material

Insulator Material	LCP, UL 94 V-0
CTI value <i>IEC 60112</i>	175
Contact Material	Copper alloy
Plating	Au over PdNi over Ni
Termination area	Sn over Ni

Mechanical

Pitch	1.27 mm
Mating Force per Pin	≤ 0.5 N
Separating Force per Pin	≥ 0.1 N
Durability <i>IEC 60512-9-1</i>	Performance level 1: 500 mating cycles
Coplanarity	≤ 0.1 mm
Vibration, sinusoidal <i>IEC 60512-6-4</i>	10 - 2000 Hz, 20g
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>	50g, 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>	3.1 A at 20°C (4 of 50 pins) 1.4 A at 20°C (50 of 50 pins)
Contact Resistance <i>IEC 60512-2-1</i>	≤ 25 m Ω
Clearance and Creepage	min. 0.4 mm
Insulation Resistance <i>IEC 60512-3-1</i>	≥ 10 G Ω
Test Voltage <i>IEC 60512-4-1</i>	500 VAC

Product Data Sheet

One27 Female high-profile,
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Technical Specifications

Processing

Soldering Temperature 20 - 40 s at 260°C
JEDEC J-STD-020E

MSL 1
JEDEC J-STD-020E

Assembly Pick and Place

Approval / Compliance

UL file E130314

Environment RoHS compliant

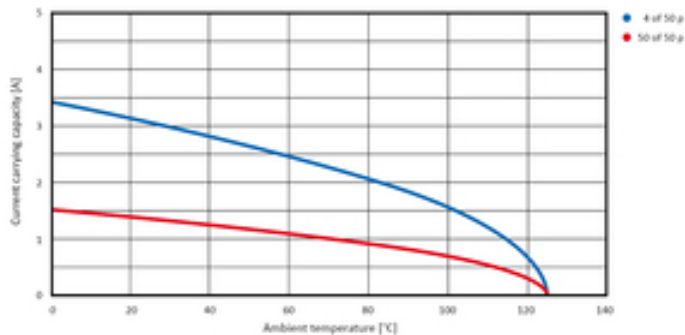
Product Data Sheet

One27 Female high-profile,
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Derating Diagram

Current carrying capacity One27
max. 3.1A at 20°C (4 of 50 pin)
max. 1.4A at 20°C (50 of 50 pin)



Product Data Sheet

One27 Female high-profile,
Part No. 404-54050-51



Modifications

Available on request

- different number of pins
- other performance level

Drawings

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

[» PDF](#)

[» 3D IGES](#)

[» 3D STEP](#)

[» 3D PDF](#)