

Product Data Sheet

One27 Female low-profile,
Part No. 404-52080-51

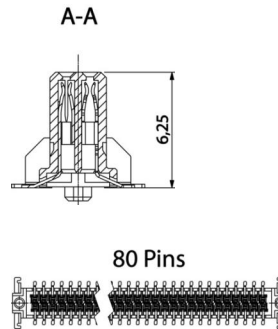
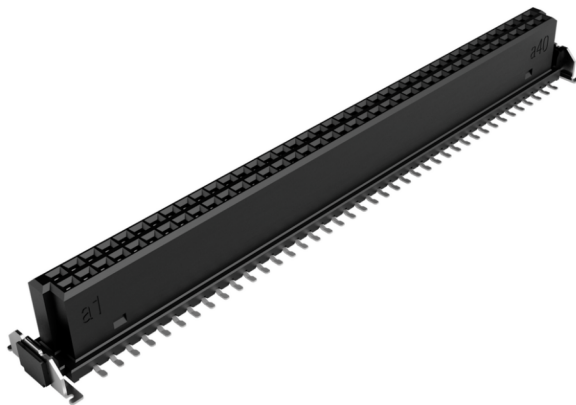


Illustration similar



Parallel



Perpendicular



SMT



High Density



Rugged

- 80 pins
- unmated stacking height: 6.25 mm
- for board-to-board distances from 8.0 to 12.6 mm
- SMT
- pitch 1.27 mm
- Performance level 1



» to product on www.ept.de



» to product group One27

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Technical Specifications

Basics

| | |
|-----------------------------|-------------------|
| No. of Contacts | 80 |
| Termination Technology | SMT |
| Board-to-Board Distance | 8.0 mm to 12.6 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 μs |
| 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 μs |

Electrical

| | |
|---|-------------------------|
| Operational Current <i>IEC 60512-5-2</i> | 1.4 A at 20°C (50 pins) |
| Contact Resistance <i>IEC 60512-2-1</i> | ≤ 25 mΩ |
| Clearance and Creepage | min. 0.4 mm |
| Insulation Resistance <i>IEC 60512-3-1</i> | ≥ 10 GΩ |
| Test Voltage <i>IEC 60512-4-1</i> | 500 VAC |

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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

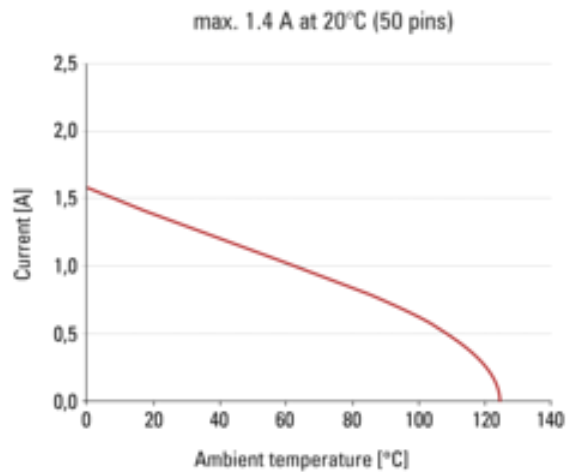
Environment RoHS compliant

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Derating Diagram



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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](#)