

# Product Data Sheet

One27 Female angled,  
Part No. 404-51032-51

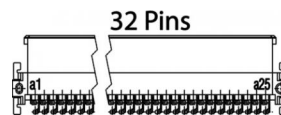
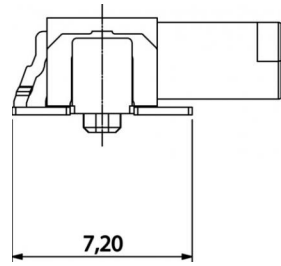
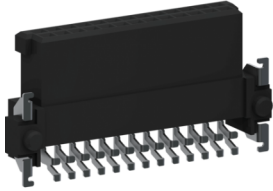


Illustration similar



Perpendicular



Horizontal



SMT



High Density

- 32 pins
- right angled
- SMT
- pitch 1.27 mm
- Performance level 1



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



» to product group One27

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## Technical Specifications

### Basics

|                             |                  |
|-----------------------------|------------------|
| No. of Contacts             | 32               |
| Termination Technology      | SMT              |
| Operating Temperature Range | -55°C to + 125°C |

### Material

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

### Mechanical

|   |  |
|---|--|
| Pitch   | 1.27 mm                                |
| Mating Force per Pin  | ≤ 0.5 N                                |
| Separating Force per Pin  | ≥ 0.1 N                                |
| Durability<br><i>IEC 60512-9-1</i>  | Performance level 1: 500 mating cycles |
| Coplanarity   | ≤ 0.1 mm                               |
| Vibration, sinusoidal<br><i>IEC 60512-6-4</i>                                   | 10 - 2000 Hz, 20g                      |
| Contact mating problems if vibrations occur, sinusoidal<br><i>IEC 60512-2-5</i> | ≤ 1 μs                                 |
| Shock, semi-sinusoidal<br><i>IEC 60512-6-3</i>                                  | 50g, 11 ms                             |
| Contact mating problems if shock occur, semi-sinusoidal<br><i>IEC 60512-2-5</i> | ≤ 1 μs                                 |

### Electrical

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

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## Technical Specifications

### Processing

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

MSL 1  
*JEDEC J-STD-020E*

Assembly Pick and Place

### Approval / Compliance

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UL file E130314

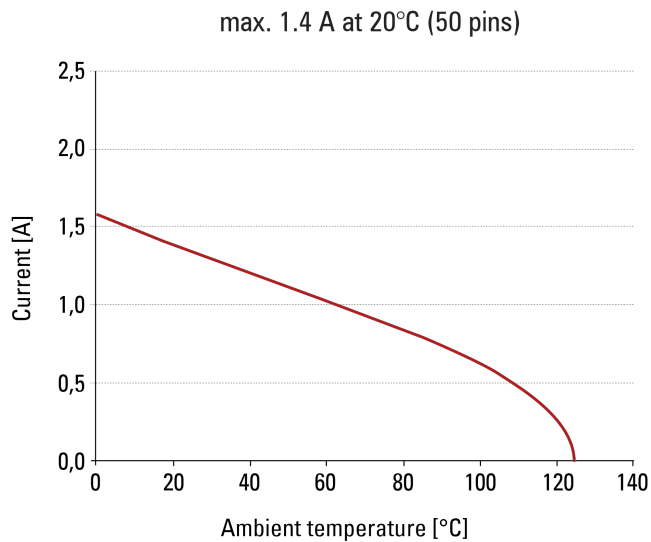
Environment RoHS compliant

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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](#)