

Product Data Sheet

Zero8 plug mid-profile shielded,
Part No. 405-53132-51

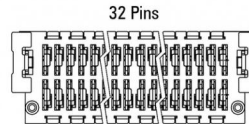
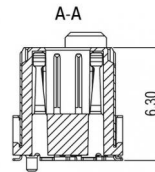
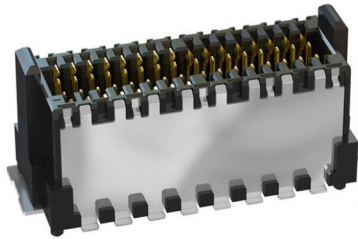


Illustration similar



Parallel



SMT



High Density



High Speed



Rugged



EMC

- 32 pins
- unmated stacking height: 2.65 mm
- EMC shielding
- SMT
- 0.8 mm pitch
- Performance level 1



» to product on www.ept.de



» to product group Zero8

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Technical Specifications

Basics

| | |
|--|--------------------|
| Performance Level <i>IEC 60512-9-1:2010</i> | 1 |
| No. of Contacts | 32 |
| Termination Technology | SMT |
| Board-to-Board Distance | 10.5 mm to 12.0 mm |
| Operating Temperature Range | -55°C to + 125°C |

Material

| | |
|-------------------------------|----------------|
| Insulator Material | LCP, UL 94 V-0 |
| CTI value <i>IEC 60112</i> | 150 |
| Contact Material | Copper alloy |
| Plating | Au over Ni |
| Termination area | Sn over Ni |

Mechanical

| | |
|---|-------------------|
| Pitch | 0.8 mm |
| Mating Force per Pin | ≤ 1.2 N |
| Separating Force per Pin | ≤ 1.2 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, 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 |

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Technical Specifications

Electrical

| | |
|---|-------------------------|
| Operational Current <i>IEC 60512-5-2</i> | 1.7 A at 20°C (52 pins) |
| Contact Resistance <i>IEC 60512-2-1</i> | ≤ 20 mΩ |
| Clearance and Creepage | 0.25 mm |
| Insulation Resistance <i>IEC 60512-3-1</i> | > 5 GΩ |
| Test Voltage <i>IEC 60512-4-1</i> | 500 VAC |
| Data Transfer Rate | 16 Gbps |
| Impedance | 100 Ω |

Processing

| | |
|--|--------------------|
| Soldering Temperature <i>JEDEC J-STD-020E</i> | 20 - 40 s at 260°C |
| MSL <i>JEDEC J-STD-020E</i> | 1 |
| Assembly | Pick and Place |

Approval / Compliance

| | |
|-------------|--------------|
| UL file | E130314 |
| Environment | RoHS konform |

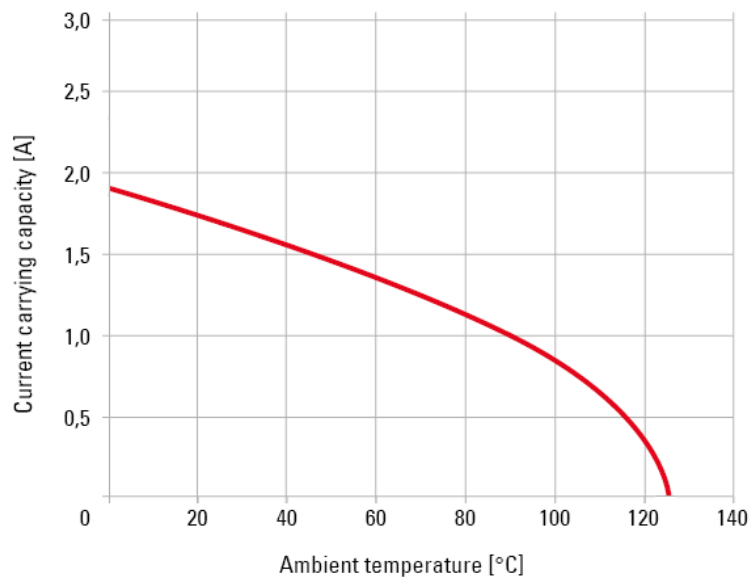
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Derating Diagram

max. 1.7 A at 20°C (52 pins)



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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](#)