# OMNIMATE Signal - series BL/SL 3.50
# SL-SMT 3.50/24/180G 3.2SN BK BX

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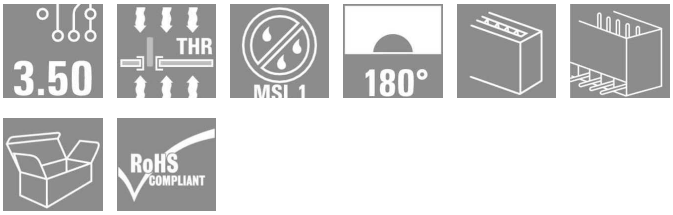


**High-temperature-resistant male header, 3.50 mm pitch.**

- **Plugging direction parallel (90°), straight 180° or angled (135°) to PCB**
- **Housing variants: closed side (G), screw flange (F), solder flange (LF) or snap-on solder flange (RF)**
- **Optimised for the SMT process**
- **Pin length 3.2 mm universal for all soldering methods**
- **Pin length 1.5 mm optimised for reflow soldering methods**
- **Packed either in a box (BX) or tape-on-reel (RL)**
- **Male header can be coded**

## General ordering data

| | |
|---|---|
| Type | SL-SMT 3.50/24/180G 3.2SN BK BX |
| Order No. | 1842530000 |
| Version | PCB plug-in connector, male header, closed side, Reflow solder connection, 3.50 mm, No. of poles: 24, 180°, Solder pin length (l): 3.2 mm, tinned, Black, Box |
| GTIN (EAN) | 4032248353897 |
| Qty. | 20 pc(s). |
| Product data | IEC: 320 V / 15 A<br>UL: 300 V / 10 A |
| Packaging | Box |

Erstellungs-Datum January 15, 2014 1:37:02 PM CET

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## Technische Daten

### Dimensions and weights

| | |
|---|---|
| Net weight | 7.45 g |

### System parameters

| | | | |
|---|---|---|---|
| Product family | OMNIMATE Signal - series BL/SL 3.50 | Mounting onto the PCB | Reflow solder connection |
| Outgoing elbow | 180° | Pitch in mm (P) | 3.5 mm |
| Pitch in inches (P) | 0.138 inch | No. of poles | 24 |
| Solder pin length (l) | 3.2 mm | Pin dimensions | d = 1.2 mm, Octagonal |
| Can be coded | Yes | Number of solder pins per pole | 1 |
| Solder eyelet hole diameter (D) | 1.4 mm | Solder eyelet hole diameter tolerance (D) | + 0,1 mm |
| L1 in mm | 80.5 mm | L1 in inches | 3.169 inch |
| Insulation resistance | $10^3$ Ω | Touch-safe protection acc. to DIN VDE 0470 | IP 10 |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from back-of-hand touch | | |

### Material data

| | | | |
|---|---|---|---|
| Insulating material | LCP GF | Colour | Black |
| Insulating material group | IIIa | UL 94 flammability rating | V-0 |
| CTI | ≥ 175 | Temperature of glow-wire test | 960 °C |
| Duration of glow-wire test | 30 s | Contact material | CuSn |
| Contact surface | tinned | Operating temperature, min. | -50 °C |
| Operating temperature, max. | 100 °C | Temperature range, installation, min. | -30 °C |
| Temperature range, installation, max. | 100 °C | Max. relative humidity during storage | 80 % |

### DIN IEC rating data

| | | | |
|---|---|---|---|
| Rated current, min. no. of poles (TU=20°C) | 15 A | Rated current, max. no. of poles (Tu=20°C) | 12 A |
| Rated current, number of poles (Tu=40°C), min | 13 A | Rated current, number of poles (Tu=40°C), max. | 10 A |
| Rated voltage for surge voltage class pollution degree III/3 | 160 V | Rated impulse voltage for surge voltage classcontamination degree III/3 | 2.5 kV |
| Rated voltage for surge voltage class pollution degree III/2 | 160 V | Rated impulse voltage for surge voltage classpollution degree III/2 | 2.5 kV |
| Rated voltage for surge voltage class pollution degree II/2 | 320 V | Rated impulse voltage for surge voltage classpollution degree II/2 | 2.5 kV |
| Short-time withstand current resistance | 3 x 1s with 100 A | | |

### CSA rating data

| | | | |
|---|---|---|---|
| Institute (CSA) | | Rated voltage (Use group B) | 300 V |
| Rated current (use group B) | 10 A | Rated voltage (use group D) | 300 V |
| Rated current (use group D) | 10 A | | |

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## Technische Daten

### UL 1059 rating data

| | | | |
|---|---|---|---|
| Institute (UR) | | Rated voltage (use group B) | 300 V |
| Rated current (use group B) | 10 A | Rated voltage (use group D) | 300 V |
| Rated current (use group D) | 10 A | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 3.0 | EC001284 | UNSPSC | 30-21-18-10 |
| eClass 5.1 | 27-26-07-04 | eClass 6.2 | 27-26-07-04 |
| eClass 7.1 | 27-44-04-02 | | |

### Notes

Notes

- Gold-plated contact surfaces on request
- Rated current related to rated cross-section & min. No. of poles.
- Solder eyelet diameter D = 1.5 + 0.1 mm, from 9 poles
- P on drawing = pitch
- Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.

### Approvals

Approvals

| | |
|---|---|
| ROHS | Conform |

### Downloads

| | |
|---|---|
| CAD Library (P-CAD Format - ASCII) | SL-SMT.zip |
| CAD Library (P-CAD Format - Standard) | SL-SMT.zip |

3D Modell

# OMNIMATE Signal - series BL/SL 3.50
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## Zeichnungen

