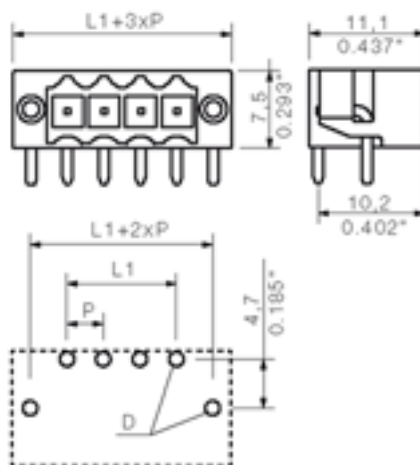




#### General ordering data

|                  |                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------|
| Order No.        | 1841990000                                                                                                   |
| Part designation | SL-SMT3.5/16/90LF 3.2SN SW BOX                                                                               |
| Version          | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 16, 90°, Box |
| EAN              | 4032248353347                                                                                                |
| Qty.             | 50 pc(s).                                                                                                    |

#### System parameters

|                                           |                              |
|-------------------------------------------|------------------------------|
| Fitted to PCB                             | Reflow solder connection     |
| Outgoing elbow                            | 90°                          |
| Pitch                                     | 3.5 mm                       |
| Pitch in inch                             | 0.138 inch                   |
| No. of poles                              | 16                           |
| Solder pin length                         | 3.2 mm                       |
| Can be coded                              | Yes                          |
| No. of rows                               | 1                            |
| No. of solder pins per pole               | 1                            |
| Dia. of fitting hole                      | 1.4 mm                       |
| Fitting hole tolerance                    | + 0.1 mm                     |
| L1 in mm                                  | 52.5 mm                      |
| L1 in inch                                | 2.067 inch                   |
| Insulation resistance                     | 1 MΩ                         |
| Electric shock protection to DIN VDE 0470 | IP 10                        |
| Electric shock protection to DIN VDE 0470 | Safe from back-of-hand touch |

#### Material data

|                               |                     |
|-------------------------------|---------------------|
| Insulating material           | LCP GF              |
| Colour                        | black               |
| colour chart                  | Similar to RAL 9011 |
| Insulating material group     | IIIa                |
| Flammability class UL 94      | V-0                 |
| CTI                           | >= 175              |
| Temperature of glow-wire test | 960 °C              |

#### Material data

|                                       |        |
|---------------------------------------|--------|
| Duration of glow-wire test            | 30 S   |
| Contact base material                 | CuSn   |
| Contact surface                       | tinned |
| Constant operating temp., min.        | -25 °C |
| Constant operating temp., max.        | 100 °C |
| Storage temperature, min.             | -25 °C |
| Storage temperature, max.             | 55 °C  |
| Max. relative humidity during storage | 80 %   |

#### DIN IEC rating data

|                                                                                |                   |
|--------------------------------------------------------------------------------|-------------------|
| Rated current, min. No. pins (Tu=20°C)                                         | 15 A              |
| Rated current, max. No. pins (Tu=20°C)                                         | 12 A              |
| Rated current, min. No. pins (Tu=40°C)                                         | 13 A              |
| Rated current, max. No. pins (Tu=40°C)                                         | 10 A              |
| Rated voltage for overvoltage class/pollution severity III/3                   | 160 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 2.5 kV            |
| Rated voltage for overvoltage class/pollution severity III/2                   | 160 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 2.5 kV            |
| Rated voltage for overvoltage class/pollution severity II/2                    | 320 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 2.5 kV            |
| Short-time withstand current resistance                                        | 3 x 1s with 100 A |

#### CSA rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 300 V |
| Rated current (Use group D) | 10 A  |

#### Approvals

Approvals institutes



## Approvals

## Downloads

CAD Library (P-CAD Format - Standard) SL-SMT.LIB

## Classifications

|            |             |
|------------|-------------|
| ETIM 2.0   | NK          |
| ETIM 3.0   | EC001284    |
| eClass 4.1 | 27-26-07-01 |
| eClass 5.0 | 27-26-07-01 |
| eClass 5.1 | 27-26-07-04 |

## Similar products

| Order No.  | Part designation              | Version                                                                                                      |
|------------|-------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1804940000 | SL-SMT3.5/2/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 2, 90°, Box  |
| 1841860000 | SL-SMT3.5/2/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 2, 90°, Box  |
| 1804950000 | SL-SMT3.5/3/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 3, 90°, Box  |
| 1841870000 | SL-SMT3.5/3/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 3, 90°, Box  |
| 1804960000 | SL-SMT3.5/4/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 4, 90°, Box  |
| 1841880000 | SL-SMT3.5/4/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 4, 90°, Box  |
| 1804970000 | SL-SMT3.5/5/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 5, 90°, Box  |
| 1841890000 | SL-SMT3.5/5/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 5, 90°, Box  |
| 1804980000 | SL-SMT3.5/6/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 6, 90°, Box  |
| 1841900000 | SL-SMT3.5/6/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 6, 90°, Box  |
| 1804990000 | SL-SMT3.5/7/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 7, 90°, Box  |
| 1841910000 | SL-SMT3.5/7/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 7, 90°, Box  |
| 1805000000 | SL-SMT3.5/8/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 8, 90°, Box  |
| 1841920000 | SL-SMT3.5/8/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 8, 90°, Box  |
| 1805010000 | SL-SMT3.5/9/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 9, 90°, Box  |
| 1841930000 | SL-SMT3.5/9/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 9, 90°, Box  |
| 1805020000 | SL-SMT3.5/10/90LF 1.5SN       | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 10, 90°, Box |

|            |                                |                                                                                                              |
|------------|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1841940000 | SL-SMT3.5/10/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 10, 90°, Box |
| 1805030000 | SL-SMT3.5/11/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 11, 90°, Box |
| 1841950000 | SL-SMT3.5/11/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 11, 90°, Box |
| 1805040000 | SL-SMT3.5/12/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 12, 90°, Box |
| 1804340000 | SL-SMT3.5/12/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 12, 90°, Box |
| 1805050000 | SL-SMT3.5/13/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 13, 90°, Box |
| 1841960000 | SL-SMT3.5/13/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 13, 90°, Box |
| 1805060000 | SL-SMT3.5/14/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 14, 90°, Box |
| 1841970000 | SL-SMT3.5/14/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 14, 90°, Box |
| 1805070000 | SL-SMT3.5/15/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 15, 90°, Box |
| 1841980000 | SL-SMT3.5/15/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 15, 90°, Box |
| 1805080000 | SL-SMT3.5/16/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 16, 90°, Box |
| 1805090000 | SL-SMT3.5/17/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 17, 90°, Box |
| 1842000000 | SL-SMT3.5/17/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 17, 90°, Box |
| 1805100000 | SL-SMT3.5/18/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 18, 90°, Box |
| 1842010000 | SL-SMT3.5/18/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 18, 90°, Box |
| 1805110000 | SL-SMT3.5/19/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 19, 90°, Box |
| 1842020000 | SL-SMT3.5/19/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 19, 90°, Box |
| 1805120000 | SL-SMT3.5/20/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 20, 90°, Box |
| 1842030000 | SL-SMT3.5/20/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 20, 90°, Box |
| 1805130000 | SL-SMT3.5/21/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 21, 90°, Box |
| 1842040000 | SL-SMT3.5/21/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 21, 90°, Box |
| 1805140000 | SL-SMT3.5/22/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 22, 90°, Box |
| 1842050000 | SL-SMT3.5/22/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 22, 90°, Box |
| 1805150000 | SL-SMT3.5/23/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 23, 90°, Box |
| 1842060000 | SL-SMT3.5/23/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 23, 90°, Box |

|            |                                |                                                                                                              |
|------------|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| 1805160000 | SL-SMT3.5/24/90LF 1.5SN        | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 24, 90°, Box |
| 1842070000 | SL-SMT3.5/24/90LF 3.2SN SW BOX | PCB plug-in connector, Male connectors, Reflow solder connection, Pitch: 3.50 mm, No. of poles: 24, 90°, Box |