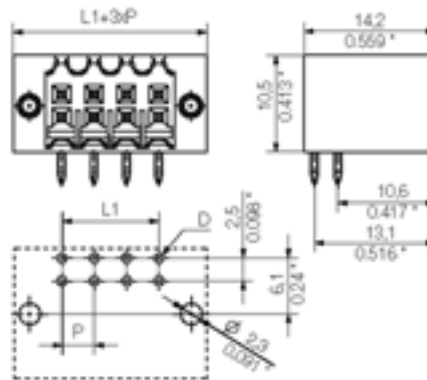




#### General ordering data

|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| Order No.        | 1728700000                                                                                              |
| Part designation | S2L 3.5/20/90F 3.5SN SW                                                                                 |
| Version          | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 20, 90°, Box |
| EAN              | 4032248040162                                                                                           |
| Qty.             | 20 pc(s).                                                                                               |

#### System parameters

|                                           |                              |
|-------------------------------------------|------------------------------|
| Fitted to PCB                             | Soldered connection          |
| Outgoing elbow                            | 90°                          |
| Pitch                                     | 3.5 mm                       |
| Pitch in inch                             | 0.138 inch                   |
| No. of poles                              | 20                           |
| Solder pin length                         | 3.5 mm                       |
| Can be coded                              | Yes                          |
| No. of rows                               | 2                            |
| No. of solder pins per pole               | 1                            |
| Dia. of fitting hole                      | 1.3 mm                       |
| Fitting hole tolerance                    | + 0.1 mm                     |
| L1 in mm                                  | 31.5 mm                      |
| L1 in inch                                | 1.24 inch                    |
| 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       | PBT                 |
| Colour                    | black               |
| colour chart              | Similar to RAL 9011 |
| Insulating material group | IIIa                |
| Flammability class UL 94  | V-0                 |
| CTI                       | >= 200              |
| Contact base material     | Copper alloy        |
| Contact surface           | tinned              |

#### Material data

|                                       |        |
|---------------------------------------|--------|
| Constant operating temp., min.        | -25 °C |
| Constant operating temp., max.        | 100    |
| Storage temperature, min.             | -25 °C |
| Storage temperature, max.             | 55 °C  |
| Max. relative humidity during storage | 93 %   |

#### DIN IEC rating data

|                                                                                |                  |
|--------------------------------------------------------------------------------|------------------|
| Rated current, min. No. pins (Tu=20°C)                                         | 10 A             |
| Rated current, max. No. pins (Tu=20°C)                                         | 10 A             |
| Rated current, min. No. pins (Tu=40°C)                                         | 9 A              |
| Rated current, max. No. pins (Tu=40°C)                                         | 8.5 A            |
| Rated voltage for overvoltage class/pollution severity III/3                   | 80 V             |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/3 | 2.5 kV           |
| Rated voltage for overvoltage class/pollution severity III/2                   | 125 V            |
| Rated impulse withstand voltage for overvoltage class/pollution severity III/2 | 2.5 kV           |
| Rated voltage for overvoltage class/pollution severity II/2                    | 250 V            |
| Rated impulse withstand voltage for overvoltage class/pollution severity II/2  | 2.5 kV           |
| Short-time withstand current resistance                                        | 3 x 1s with 77 A |

#### CSA rating data

|                             |      |
|-----------------------------|------|
| Rated voltage (Use group D) | 50 V |
| Rated current (Use group D) | 5 A  |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage (Use group D) | 150 V |
| Rated current (Use group D) | 7 A   |

#### Approvals

Approvals institutes



#### Downloads

|                                       |             |
|---------------------------------------|-------------|
| CAD Library (P-CAD Format - Standard) | S2L-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 | 27-26-07-01 |

### Similar products

| Order No.  | Part designation        | Version                                                                                                 |
|------------|-------------------------|---------------------------------------------------------------------------------------------------------|
| 1728470000 | S2L 3.5/6/90F 3.5SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 6, 90°, Box  |
| 1728630000 | S2L 3.5/6/90F 3.5SN SW  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 6, 90°, Box  |
| 1756000000 | S2L 3.5/6/90F 3.5AU OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 6, 90°, Box  |
| 1756160000 | S2L 3.5/6/90F 3.5AU SW  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 6, 90°, Box  |
| 1728480000 | S2L 3.5/8/90F 3.5SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 8, 90°, Box  |
| 1728640000 | S2L 3.5/8/90F 3.5SN SW  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 8, 90°, Box  |
| 1756010000 | S2L 3.5/8/90F 3.5AU OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 8, 90°, Box  |
| 1728490000 | S2L 3.5/10/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 10, 90°, Box |
| 1728650000 | S2L 3.5/10/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 10, 90°, Box |
| 1756020000 | S2L 3.5/10/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 10, 90°, Box |
| 1756180000 | S2L 3.5/10/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 10, 90°, Box |
| 1728500000 | S2L 3.5/12/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 12, 90°, Box |
| 1728660000 | S2L 3.5/12/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 12, 90°, Box |
| 1756190000 | S2L 3.5/12/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 12, 90°, Box |
| 1728510000 | S2L 3.5/14/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 14, 90°, Box |
| 1728670000 | S2L 3.5/14/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 14, 90°, Box |
| 1728520000 | S2L 3.5/16/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 16, 90°, Box |
| 1728680000 | S2L 3.5/16/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 16, 90°, Box |
| 1756050000 | S2L 3.5/16/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 16, 90°, Box |
| 1756210000 | S2L 3.5/16/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 16, 90°, Box |
| 1728530000 | S2L 3.5/18/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 18, 90°, Box |
| 1728690000 | S2L 3.5/18/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 18, 90°, Box |
| 1756060000 | S2L 3.5/18/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 18, 90°, Box |
| 1728540000 | S2L 3.5/20/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 20, 90°, Box |

|            |                         |                                                                                                         |
|------------|-------------------------|---------------------------------------------------------------------------------------------------------|
| 1756070000 | S2L 3.5/20/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 20, 90°, Box |
| 1756230000 | S2L 3.5/20/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 20, 90°, Box |
| 1728550000 | S2L 3.5/22/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 22, 90°, Box |
| 1756240000 | S2L 3.5/22/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 22, 90°, Box |
| 1728560000 | S2L 3.5/24/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 24, 90°, Box |
| 1728720000 | S2L 3.5/24/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 24, 90°, Box |
| 1756090000 | S2L 3.5/24/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 24, 90°, Box |
| 1756250000 | S2L 3.5/24/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 24, 90°, Box |
| 1728570000 | S2L 3.5/26/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 26, 90°, Box |
| 1756100000 | S2L 3.5/26/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 26, 90°, Box |
| 1756260000 | S2L 3.5/26/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 26, 90°, Box |
| 1728580000 | S2L 3.5/28/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 28, 90°, Box |
| 1728740000 | S2L 3.5/28/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 28, 90°, Box |
| 1728590000 | S2L 3.5/30/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 30, 90°, Box |
| 1728600000 | S2L 3.5/32/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 32, 90°, Box |
| 1728760000 | S2L 3.5/32/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 32, 90°, Box |
| 1756130000 | S2L 3.5/32/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 32, 90°, Box |
| 1728610000 | S2L 3.5/34/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 34, 90°, Box |
| 1756300000 | S2L 3.5/34/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 34, 90°, Box |
| 1728620000 | S2L 3.5/36/90F 3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 36, 90°, Box |
| 1728780000 | S2L 3.5/36/90F 3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 36, 90°, Box |
| 1756150000 | S2L 3.5/36/90F 3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 36, 90°, Box |
| 1756310000 | S2L 3.5/36/90F 3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, No. of poles: 36, 90°, Box |