



#### General ordering data

|                  |  |
|------------------|--|
| Order No.        | 1728960000   |
| Part designation | S2L 3.5/8/180G3.5SN SW   |
| Version          | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 8, 180°, Box |
| EAN              | 4032248040391  |
| Qty              | 50 pc(s).  |

#### System parameters

|   |                              |
|---|------------------------------|
| Fitted to PCB                             | Soldered connection          |
| Outgoing elbow                            | 180°                         |
| Pitch                                     | 3.5 mm                       |
| Pitch in inch                             | 0.138 inch                   |
| Number of poles                           | 8                            |
| Length of soldering post                  | 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                                  | 10.5 mm                      |
| L1 in inch                                | 0.413 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

|                            |                     |
|----------------------------|---------------------|
| Insulation material        | PBT                 |
| Colour                     | black               |
| colour chart               | Similar to RAL 9011 |
| Insulating material group  | IIIa                |
| UL 94 combustibility class | V-0                 |
| CTI                        | >= 200              |
| Contact base material      | Cu alloy            |
| Contact surface            | tinned              |

#### Material data

|                                       |                     |
|---------------------------------------|---------------------|
| Constant operating temp., min.        | -25 °C              |
| Constant operating temp., max.        | 100 mm <sup>2</sup> |
| 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, user group D | 50 V |
| Rated current, user group D | 5 A  |

#### UL 1059 rating data

|                             |       |
|-----------------------------|-------|
| Rated voltage, user group D | 150 V |
| Rated current, user group D | 7 A   |

#### Approvals

|               |               |
|---------------|---------------|
| Approval body | CSA; UR; ROHS |
|---------------|---------------|

#### Downloads

|                                       |             |
|---------------------------------------|-------------|
| CAD Library (P-CAD Format - ASCII)    | S2L-SMT.LIA |
| 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   |
|------------|-------------------------|---|
| 1728910000 | S2L 3.5/30/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 30, 180°, Box |
| 1728900000 | S2L 3.5/28/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 28, 180°, Box |
| 1729040000 | S2L 3.5/24/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 24, 180°, Box |
| 1728950000 | S2L 3.5/6/180G3.5SN SW  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 6, 180°, Box  |
| 1728830000 | S2L 3.5/14/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 14, 180°, Box |
| 1756390000 | S2L 3.5/20/180G3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 20, 180°, Box |
| 1728820000 | S2L 3.5/12/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 12, 180°, Box |
| 1728880000 | S2L 3.5/24/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 24, 180°, Box |
| 1729030000 | S2L 3.5/22/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 22, 180°, Box |
| 1728790000 | S2L 3.5/6/180G3.5SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 6, 180°, Box  |
| 1728920000 | S2L 3.5/32/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 32, 180°, Box |
| 1729010000 | S2L 3.5/18/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 18, 180°, Box |
| 1728940000 | S2L 3.5/36/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 36, 180°, Box |
| 1756340000 | S2L 3.5/10/180G3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 10, 180°, Box |
| 1756350000 | S2L 3.5/12/180G3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 12, 180°, Box |
| 1729000000 | S2L 3.5/16/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 16, 180°, Box |
| 1728970000 | S2L 3.5/10/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 10, 180°, Box |
| 1728860000 | S2L 3.5/20/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 20, 180°, Box |
| 1728800000 | S2L 3.5/8/180G3.5SN OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 8, 180°, Box  |
| 1728890000 | S2L 3.5/26/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 26, 180°, Box |
| 1728930000 | S2L 3.5/34/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 34, 180°, Box |
| 1728840000 | S2L 3.5/16/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 16, 180°, Box |
| 1728850000 | S2L 3.5/18/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 18, 180°, Box |
| 1728810000 | S2L 3.5/10/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 10, 180°, Box |
| 1729100000 | S2L 3.5/36/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 36, 180°, Box |

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|------------|-------------------------|---|
| 1728990000 | S2L 3.5/14/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 14, 180°, Box |
| 1729020000 | S2L 3.5/20/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 20, 180°, Box |
| 1728980000 | S2L 3.5/12/180G3.5SN SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 12, 180°, Box |
| 1756580000 | S2L 3.5/26/180G3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 26, 180°, Box |
| 1756320000 | S2L 3.5/6/180G3.5AU OR  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 6, 180°, Box  |
| 1728870000 | S2L 3.5/22/180G3.5SN OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 22, 180°, Box |
| 1756530000 | S2L 3.5/16/180G3.5AU SW | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 16, 180°, Box |
| 1756380000 | S2L 3.5/18/180G3.5AU OR | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 18, 180°, Box |
| 1728960000 | S2L 3.5/8/180G3.5SN SW  | PCB plug-in connector, Male connectors, Soldered connection, Pitch: 3.50 mm, Number of poles: 8, 180°, Box  |