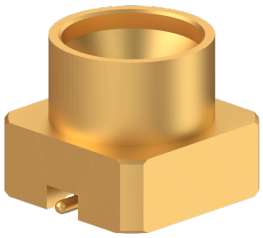
DATA SHEET

# COAXIAL CONNECTOR, SMPM, 50 Ohm, Straight PCB plug (male), smooth bore

81_SMPM-S50-0-S5/111_N

## Properties

- Best performance-to-price ratio
- Excellent RF performance up to 65 GHz
- Small size, compact form factor
- Snap-on coupling mechanism with full detent and smooth bore
- Board-to-board solutions with bullets for axial and radial float



| Product configuration | | |
|---|---|---|
| Interface type | Gender | Standard |
| SMPM | plug | MIL-STD-348B |

| Interface and material data | | |
|---|---|---|
| Piece parts | Material | Plating |
| Centre contact | Copper Beryllium Alloy | SUCOPRO Plating |
| Outer conductor | Brass | SUCOPRO Plating |
| Insulator | PEEK (Polyether-etherketone) | |

| Electrical data | |
|---|---|
| Impedance | 50 Ω |
| Interface frequency | 65 GHz |

| Electrical Data (frequency related) | | |
|---|---|---|
| **Frequency range** | **Return loss** | **VSWR** |
| 0 GHz ... 18 GHz | 26 dB | 1.11 |
| 18 GHz ... 26.5 GHz | 20 dB | 1.22 |
| 26.5 GHz ... 50 GHz | 18 dB | 1.29 |
| 50 GHz ... 65 GHz | 9 dB | 2.10 |

| Mechanical data | |
|---|---|
| Weight | 0.25 g |
| Mating cycles | 500 |
| Board mounting type | surface mount |
| Height above PCB HA | 3.4 mm |



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81_SMPM-S50-0-S5/111_N

| Engagement / Disengagement force | | |
|---|---|---|
| | **Engagement** | **Disengagement** |
| Interface class | Smooth bore | Smooth bore |
| Interface force typical | 11 N | 6.7 N |

| Environmental data | |
|---|---|
| Operation temperature | -65 °C ... 165 °C |

| Material compliance | | | |
|---|---|---|---|
| Item number | Directive / Regulation | Rating | Exemptions / Details |
| 85246813 | RoHS 2011/65/EU and (EU) 2015/863 | Compliant with exemption | 6c |
| | REACH 1907/2006 Article 33 SVHC | Contains one or more SVHC >0,1% | CAS: 7439-92-1 Lead |
| 85235736 | RoHS 2011/65/EU and (EU) 2015/863 | Compliant with exemption | 6c |
| | REACH 1907/2006 Article 33 SVHC | Contains one or more SVHC >0,1% | CAS: 7439-92-1 Lead |

| Ordering Information Table | | |
|---|---|---|
| Item number | Item description | Packaging type |
| 85246813 | 81_SMPM-S50-0-S5/111_NE | Single |
| 85235736 | 81_SMPM-S50-0-S5/111_NM | Tape and Reel |

| Additional Information | |
|---|---|
| Remarks | The values provided are typical and may vary depending on factors such as the mating connector, PCB (layout), and assembly condition. |

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