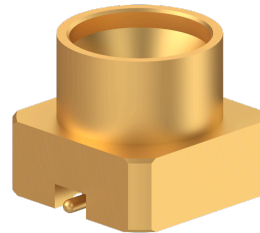# COAXIAL CONNECTOR, SMPM, 50 Ohm, Straight PCB plug (male), full detent

81_SMPM-S50-0-F6/111_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	17 dB	1.33

Mechanical data

Weight	0.25 g
Mating cycles	100
Board mounting type	surface mount
Height above PCB HA	3.4 mm

HUBER+SUHNER

COAXIAL CONNECTOR, SMPM, 50 Ohm, Straight PCB plug (male), full detent
81_SMPM-S50-0-F6/111_N

Engagement / Disengagement force

	Engagement	**Disengagement**
Interface class	Full detent	Full detent
Interface force typical	20 N	29 N

Environmental data

Operation temperature	-65 °C ... 165 °C

Material compliance

Item number	Directive / Regulation	Rating	Exemptions / Details
85248312	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
85241129	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
85248312	81_SMPM-S50-0-F6/111_NE
85241129	81_SMPM-S50-0-F6/111_NM

Additional Information

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

HUBER+SUHNER