

SMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250 Cable

Times Microwave Systems Connector Specification

SMA Male Low PIM Connector Solder/Solder Attachment for SPP-250-LLPL, SPF-250, SPO-250, 1/4" Superflexible and FM-1/4SFHC Cable, part number TC-250-SM-LP, from Times Microwave offered by Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.35:1. The SMA male connector also has low passive intermodulation (PIM) of -155 dBc.

Times Microwave's SMA male connector TC-250-SM-LP datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
VSWR			1.35:1	
Insertion Loss			0.25	dB
Passive Intermodulation			-155	dBc
Operating Voltage (DC)			1,000	Vdc
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion Loss = $-0.1 * \text{SQRT}(F(\text{GHz}))$

Mechanical Specifications

Size	
Length	1.06 in [26.92 mm]
Width/Dia.	0.35 in [8.89 mm]
Height	0.35 in [8.89 mm]
Weight	0.024 lbs [10.89 g]
Mating Cycles	500 Cycles
Mating Torque	44.25 in-lbs [5 Nm]

Material Specifications

Description	Material	Plating
Contact	Brass	Silver 200µin
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin



Configuration:

- SMA Male Connector
- 50 Ohms
- Straight Body Geometry
- SPP-250-LLPL, SPF-250, SPO-250, 1/4" Superflexible, FM-1/4SFHC Interface Type
- Solder/Solder Attachment
- Low PIM Design

Features:

- Operating Frequency of 6 GHz Max.
- Good VSWR of 1.35:1
- PIM levels better than -155 dBc
- Silver Plated Brass Contact
- 200µin contact plating

Applications:

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications
- Distributed Antenna Systems (DAS)

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Coupling Nut	Brass	Tri-Metal 80 µin
Gasket	Silicone Rubber	

Environmental Specifications

Temperature

Operating Range	-40 to 125 deg C
Shock	MIL-STD 202G, Method 213, Condition I
Vibration	MIL-STD 202G, Method 204, Condition B
Thermal Shock	MIL-STD 202G, Method 107, Condition B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

SMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250 Cable from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Male Low PIM Connector Solder Attachment for SPP-250-LLPL, SPO-250, SPF-250 Cable TC-250-SM-LP](#)

URL: <https://www.fairviewmicrowave.com/sma-male-spp-250-llpl-spo-250-spf-250-connector-tc-250-sm-lp-p.aspx>

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