





ADP-SMPF-SMPF-G

SMP Jack to SMP Jack Adapter

The ADP-SMPF-G is an SMP jack to SMP jack adapter. Operating from 0 GHz to 26.5 GHz, the ADP-SMPF-SMPF-G combines superior performance, compact size, and a convenient snap-on mating interface to provide a reliable, easy-to-use adapter. Linx SMP adapters are ideal for making board-to-board connections. Additionally, all Linx adapters meet RoHS lead free standards and are tested to meet requirements for corrosion resistance, vibration, mechanical and thermal shock.

FEATURES

- 0 to 26.5 GHz operation
- Gold plating
 - Superior corrosion resistance
- SMP jack (female socket) connection
 - Gold plated beryllium copper center contact
- Ideal for board-to-board connections

APPLICATIONS

- Cellular IoT
 - LTE-M (Cat-M1), NB-IoT
- Cellular
 - 5G/4G LTE/3G/2G
- WiFi/WLAN
 - WiFi 6/6E
- GNSS
 - GPS, Galileo, GLONASS, BeiDou, QZSS
- Radar, Satellite Communications, Experimental
- · Industrial, Commercial, Enterprise

ORDERING INFORMATION

Part Number	Description	
ADP-SMPF-SMPF-G	SMP jack (female socket) to SMP jack (female socket) adapter	

Available from Linx Technologies and select distributors and representatives.

TABLE 1. ELECTRICAL SPECIFICATIONS

Frequency Range	0 to 26.5 GHz		
Impedance	50 Ω		
Frequency Range	0 to 26.5 GHz		
Voltage Rating	500 V RMS		
Contact Resistance	Center: ≤ 6.0 mΩ Outer: ≤ 3.0 mΩ		
Select Frequencies	1.1 GHz to 5 GHz 12 GHz to 18 GHz		
Insertion Loss (dB max.)	0.10 0.28		
VSWR (max.)	1.0 1.5		

PRODUCT DIMENSIONS

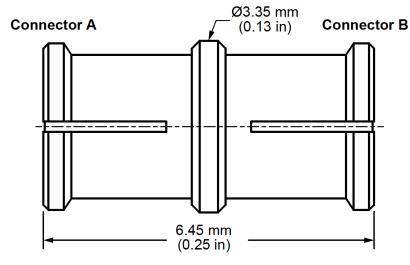


Figure 1. Product Dimensions for the ADP-SMPF-SMPF-G Adapter

TABLE 2. ADAPTER COMPONENTS

ADP-SMPF-SMPF-G	Connector A SMP jack (female socket)		Conne SMP jack (fe	ector B male socket)
Connector Part	Material	Finish	Material	Finish
Body	Beryllium Copper	Gold	Beryllium Copper	Gold
Center Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulator	PTFE	-	PTFE	-

ADAPTER PERFORMANCE

Table 3 shows insertion loss and VSWR values for the ADP-SMPF-SMPF-G adapter at commonly used frequencies.

Insertion loss is the loss of signal power (gain) resulting from the insertion of a device in a transmission line. VSWR describes how efficiently power is transmitted through the adapter. A lower VSWR value indicates better performance at a given frequency.

TABLE 3. INSERTION LOSS AND VSWR FOR THE ADP-SMPF-SMPF-G ADAPTER

Band	Low-Band Cellular/ ISM/LPWA	GNSS, Midband Cellular, Wifi	WiFi 6E	Ku
Frequency Range	400 MHz to 960 MHz	1.1 GHz to 5 GHz	5 GHz to 7.125 GHz	12 GHz to 18 GHz
Insertion Loss (dB max.)	0.05	0.10	0.11	0.28
VSWR (max.)	1.0	1.0	1.1	1.5

TABLE 4. MECHANICAL SPECIFICATIONS

ADP-SMPF-SMPF-G	Connector A Connector B SMP jack (female socket) SMP jack (female socket)		
Mounting Type	Inline, Free-hanging		
Fastening Type	Snap-on Coupling	Snap-on Coupling	
Interface in Accordance with	MIL-STD-348B	MIL-STD-348B	
Durability	100 cycles min.	100 cycles min.	
Weight	0.18 g (0.006 oz)		

TABLE 5. ENVIRONMENTAL SPECIFICATIONS

MIL-STD, Method, Test Condi	tion
Corrosion (Salt spray)	MIL-STD-202 Method 101 test condition B
Thermal Shock	MIL-STD-202 Method 107 test condition C
Vibration	MIL-STD-202 Method 204 test condition B
Mechanical Shock	MIL-STD-202 Method 213 test condition B
Moisture Resistance	MIL-STD-202 Method 106 test condition D
Temperature Range	-65 °C to +165 ° C
Environmental Compliance	RoHS

PACKAGING INFORMATION

The ADP-SMPF-SMPF-G adapter is sealed in a plastic bag of 100 pcs. Distribution channels may offer alternative packaging options.

TE TECHNICAL SUPPORT CENTER

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