

Precision QD SMA Male to SMA Female Adapter



LCAD9774

Configuration

- QD SMA Male Connector 1
- SMA Female Connector 2
- Impedance 50 Ohm
- Precision Design
- Straight Body Geometry

Description

The L-com LCAD9774 Precision adapter has a straight body geometry and is suitable for general-purpose test applications. This RF adapter has an SMA Male to SMA Female connector and a PTFE dielectric, which makes it resistant to lubricants and fuels. The Male coaxial adapter has a Beryllium Copper contact and a maximum operating AC voltage of 500 Vrms.

This Precision adapter has an SMA interface that brings interoperability of coaxial connectors, as well as a basis for the Hi-Rel design and construction of these components. This L-com 500 Vrms connector RF adapter can operate at a temperature range of -65 to 165 deg C and has high repeatability.

The LCAD9774 coaxial adapter has a maximum frequency range of 18 GHz and is most used for Testing, Measurement, Satcom, Military, and Defense industries. This RF adapter has Gold over Nickel plating and is designed to enable connections in RF and microwave systems between two of the same or different connector types. The L-com SMA adapter is constructed with a body and has no plating.

The SMA Male adapter is one of the thousands of RF products available from L-com in-stock inventory with same-day shipment for domestic and international orders. Make your online purchase right now for a high-quality 18 GHz coaxial adapter and take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the perfect Beryllium Copper RF adapter for your requirement.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.14:1	
Insertion Loss			0.26	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
High Potential Voltage			1,000	Vrms
	at 4 and 7 MHz			
Corona Discharge			375	Vrms
	at 70,000 ft			

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Inner Conductor DC Resistance		4	mOhms
Outer Conductor DC Resistance		2	mOhms
Insulation Resistance	5,000		MOhms

Electrical Specification Notes:
 Values at 25°C, sea level.
 $VSWR = 1.05 + 0.005 \times (fGHz)$.
 Insertion Loss = $0.06 \times \sqrt{fGHz}$ dB.
 RF Leakage -90 dB max at 2.5 GHz.

Mechanical Specifications

Size		
Length	1.08in	27.43mm]
Width	0.505in	[12.83mm]
Height	0.505in	[12.83mm]
Weight	0.0352lbs	[15.97g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Polarity	Standard	Standard
Mating Cycles	1,000	1,000
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]	

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	QD SMA Male		SMA Female	
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Beryllium Copper	Gold over Nickel 10 µin minimum	Brass	Gold 10 µin minimum
Coupling Nut	Beryllium Copper	Nickel 50 µin minimum		

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Environmental Specifications

Temperature

Operating Range	-65°C to +165°C
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Test Cond. I
Vibration	MIL-STD-202, Method 204, Test Cond. D
Thermal Shock	MIL-STD-202, Method 107, Test Cond. B
Salt Spray	MIL-STD-202, Method 101, Test Cond. B

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

Plotted and Other Data

Precision QD SMA Male to SMA Female Adapter from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components. The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing

