

## SMA Female to QMA Male Adapter



### LCAD9786

#### Configuration

- SMA Female Connector 1
- QMA Male Connector 2
- Impedance 50 Ohm
- Straight Body Geometry

#### Features

- SMA Interface compliant with MIL-STD-348A
- Gold Plated Beryllium Copper Contact

#### Applications

- Allows Connection Between Series
- General Purpose Test

#### Description

The L-com LCAD9786 Standard adapter has a straight body geometry and is suitable for general-purpose test applications. This RF adapter has an SMA Female to QMA Male connector and a PTFE dielectric, which makes it resistant to lubricants and fuels. The Female coaxial adapter has a Beryllium Copper contact and a maximum operating AC voltage of 480 Vrms.

This Standard adapter has an SMA interface compliant with MIL-STD-348A that brings interoperability of coaxial connectors, as well as a basis for the Hi-Rel design and construction of these components. This L-com 480 Vrms connector RF adapter can operate at a temperature range of -40 to 85 deg C and has high repeatability.

The LCAD9786 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 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 Female 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
Operating Voltage (AC)			480	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			3	mOhms

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Outer Conductor DC Resistance		2.5	mOhms
Insulation Resistance	5,000		MOhms

**Performance by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
Return Loss, Max	-32	-28				dB

Electrical Specification Notes:  
 Values at 25°C, sea level.  
 Insertion loss (dB) = 0.03 x sqrt(FGHz) max up to 6 GHz.  
 RF leakage -70 dB max up to 6 GHz.

**Mechanical Specifications**

Size		
Length	0.97in	24.64mm]
Width	0.41in	[10.41mm]
Height	0.41in	[10.41mm]
Weight	0.018lbs	[8.16g]

Description	Connector 1	Connector 2
Type	SMA Female	QMA Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	
Mating Cycles	100	100

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		QMA Male	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Tri-Metal		
Body			Spring Bronze	Tri-Metal

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### Environmental Specifications

#### Temperature

Operating Range	-40°C to +85°C
Storage Range	-40°C to +85°C

Vibration	IEC 60068-2-64 random
Thermal Shock	IEC 60169-1 16.4 (-40 to +85 °C)
Salt Spray	IEC 60169-1 16.7 (48 hours)

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

#### Plotted and Other Data

SMA Female to QMA Male 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

