

Coaxial Adapter, SMA Male / UMCX Jack



LCAD30005

Configuration

- SMA Male Connector 1
- UMCX Jack Connector 2
- Impedance 50 Ohm
- Straight Body Geometry

Features

- Provides Between Series SMA to UMCX Connections
- Operates to 6 GHz
- Max VSWR of 1.3:1
- Gold Plated Center Contacts

Applications

Description

These L-com RF Coaxial Adapters are used to interface between SMA to UMCX with coaxial connections. The LCAD30005 is a straight adapter with a male to jack configuration. This Coaxial Adapter, SMA Male / UMCX Jack is made from tri-metal and has a gold finish. An SMA interface design is defined by Mil-STD-348A and has many popular features including a threaded coupling method with a robust center contact and outer conductor interface. SMA's generally work up to 18GHz and are a cost effective way of insuring a highly dependable RF Coaxial connection. A UMCX adapter's interface is compatible with the popular u.fl design from Hirose. The UMCX has a simple snap on connection and its small size is popular in applications that require a small foot print. Often used on printed circuit boards and with micro coax the UMCX (u.fl) interface is a widely used miniature coaxial connector series. L-com's RF Coaxial and Triaxial adapters are in stock and ship same day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Operating Voltage (AC)			100	Vrms

Mechanical Specifications

Size		
Length	0.55in	13.97mm]
Width	0.315in	[8mm]

Description	Connector 1	Connector 2
Type	SMA Male	UMCX Jack
Polarity	Standard	Standard
Hex Size	5/16 inch	
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]	

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Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		UMCX Jack	
Contact	Brass	Gold 2 µin minimum	Brass	Gold 2 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor			Brass	Gold 2 µin minimum
Body	Brass	Gold 2 µin minimum	Brass	Gold 2 µin minimum
Coupling Nut	Brass	Gold 2 µin minimum		

Environmental Specifications

Temperature

Operating Range -40°C to +90°C

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

Plotted and Other Data

Coaxial Adapter, SMA Male / UMCX Jack 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. 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

