

Coaxial Adapter, SMA Female / UMCX Jack



LCAD30004

Configuration

- SMA Female Connector 1
- Push-On UMCX Female 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 LCAD30004 is a straight adapter with a female to jack configuration. This Coaxial Adapter, SMA Female / UMCX Jack is made from brass 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
Dielectric Withstanding Voltage (AC)			200	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size

Length	0.46in	11.68mm]
Width	0.26in	[6.6mm]

Description	Connector 1	Connector 2
Type	SMA Female	UMCX Female

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Polarity	Standard	Standard
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Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		Push-On UMCX Female	
Contact	Phosphor Bronze	Gold 2 μin minimum	Beryllium Copper	Gold 2 μin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Gold 2 μin minimum	Brass	Gold 2 μin minimum
Body	Brass	Gold 2 μin minimum	Phosphor Bronze	Gold 2 μin minimum

Environmental Specifications

Temperature

Operating Range	-40°C to +90°C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Coaxial Adapter, SMA Female / 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.

Coaxial Adapter, SMA Female / UMCX Jack

L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	01/09/2020
		APPROVED SELLIS

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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an INFINITE brand

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

X = ±.2 [5.08]	FRACTIONS ± 1/32
.XX = ±.02 [.51]	ANGLES ± 1°
.XXX = ±.005 [.13]	

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	±.1 [25]
12 [305] < L ≤ 60 [1524]	±.2 [51]
60 [1524] < L ≤ 120 [3048]	±.4 [102]
120 [3048] < L ≤ 300 [7620]	±.6 [152]
300 [7620] < L	±.5% [L]

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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