

Coaxial Adapter, SMA Male / SMB Jack



LCAD30011

Configuration

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

Features

- Provides Between Series SMA to SMB Connections
- Operates to 4 GHz
- Max VSWR of 1.25:1
- Gold Plated Center Contacts

Applications

Description

These L-com RF Coaxial Adapters are used to interface between SMA to SMB with coaxial connections. The LCAD30011 is a straight adapter with a male to jack configuration. This Coaxial Adapter, SMA Male / SMB 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. The SMB interface is smaller than an SMA and uses a snap on connection. An important difference to note is that the SMB Jack (female) interface design has a Male center contact and the SMB Plug (Male) design uses a female socket for the center pin. SMB connectors generally have a maximum operating frequency of 4 GHz and are available in 50 Ohm and 75 Ohm impedances. 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		4	GHz
VSWR			1.25:1	
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size		
Length	0.85in	21.59mm]
Width	0.31in	[7.87mm]

Description	Connector 1	Connector 2
Type	SMA Male	SMB Jack
Polarity	Standard	Standard
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		SMB Jack	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PTFE		PTFE	
Outer Conductor			Brass	Gold
Body	Brass	Gold	Brass	Gold
Gasket	Silicone			
Coupling Nut	Brass	Gold		

Environmental Specifications

Temperature

Operating Range -65°C to +165°C

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

Plotted and Other Data

Coaxial Adapter, SMA Male / SMB 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 impliment 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 impliment 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 Male / SMB Jack

L-com CAD Drawing

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

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">X = ±.2 [5.08]</td> <td style="border: none;">FRACTIONS</td> </tr> <tr> <td style="border: none;">.XX = ±.02 [.51]</td> <td style="border: none;">± 1/32</td> </tr> <tr> <td style="border: none;">.XXX = ±.005 [.13]</td> <td style="border: none;">ANGLES ± 1°</td> </tr> </table> <p>CABLE LENGTH (L) TOLERANCES:</p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">L ≤ 12 [305]</td> <td style="border: none;">= +1 [25] / -0</td> </tr> <tr> <td style="border: none;">12 [305] < L ≤ 60 [1524]</td> <td style="border: none;">= +2 [51] / -0</td> </tr> <tr> <td style="border: none;">60 [1524] < L ≤ 120 [3048]</td> <td style="border: none;">= +4 [102] / -0</td> </tr> <tr> <td style="border: none;">120 [3048] < L ≤ 300 [7620]</td> <td style="border: none;">= +6 [152] / -0</td> </tr> <tr> <td style="border: none;">300 [7620] < L =</td> <td style="border: none;">+5% / -0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	X = ±.2 [5.08]	FRACTIONS	.XX = ±.02 [.51]	± 1/32	.XXX = ±.005 [.13]	ANGLES ± 1°	L ≤ 12 [305]	= +1 [25] / -0	12 [305] < L ≤ 60 [1524]	= +2 [51] / -0	60 [1524] < L ≤ 120 [3048]	= +4 [102] / -0	120 [3048] < L ≤ 300 [7620]	= +6 [152] / -0	300 [7620] < L =	+5% / -0	<p>L-com™ an INFINITE brand</p> <p>50 High Street, West Mill, 3rd Floor, Suite #30 North Andover, MA 01845 USA. Phone: 1.800.341.5266 1.978.682.6936 Fax: 1.978.689.9484 Website: www.L-com.com E-mail: CustomerService@L-com.com</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF L-COM GLOBAL CONNECTIVITY. ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
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SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV														
A	43321	BPUCHASKI	LCAD30011	A														

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