

Coaxial Adapter, SMA Female / RP-SMA Male



## LCAD30030

### Configuration

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

### Features

- Provides In-Series SMA to Reverse Polarity SMA Connections
- Operates to 18 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 SMA with coaxial connections. The LCAD30030 is a straight adapter with a female to male configuration. This Coaxial Adapter, SMA Female / RP-SMA Male is made from brass and has a nickel 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. 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		18	GHz
VSWR			1.25:1	
Insulation Resistance	5,000			MOhms

### Mechanical Specifications

Size		
Length	0.72in	18.29mm]
Width	0.25in	[6.35mm]

Description	Connector 1	Connector 2
Type	SMA Female	SMA Male
Polarity	Standard	Reverse Polarity

### Material Specifications

	Connector 1	Connector 2
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Description	Material	Plating	Material	Plating
Type	SMA Female		SMA Male Reverse Polarity	
Contact	Phosphor Bronze	Gold	Phosphor Bronze	Gold
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Nickel		
Body	Brass	Nickel	Brass	Nickel
Coupling Nut			Brass	Nickel

### 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 Female / RP-SMA Male 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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Coaxial Adapter, SMA Female / RP-SMA Male

L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	01/15/2020
		APPROVED SELLIS

  
  

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p><b>TOLERANCES:</b></p> <table style="font-size: small;"> <tr> <td>X = ±.2 [5.08]</td> <td>FRACTIONS ± 1/32</td> </tr> <tr> <td>.XX = ±.02 [ .51 ]</td> <td>ANGLES ± 1°</td> </tr> <tr> <td>.XXX = ±.005 [ .13 ]</td> <td></td> </tr> </table> <p><b>CABLE LENGTH (L) TOLERANCES:</b></p> <table style="font-size: small;"> <tr> <td>L ≤ 12 [305]</td> <td>= +1 [25] / -0</td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>= +2 [51] / -0</td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>= +4 [102] / -0</td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>= +6 [152] / -0</td> </tr> <tr> <td>300 [7620] &lt; L</td> <td>= +5% / - 0</td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	X = ±.2 [5.08]	FRACTIONS ± 1/32	.XX = ±.02 [ .51 ]	ANGLES ± 1°	.XXX = ±.005 [ .13 ]		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><b>L-com™</b> an <b>INFINITE</b> 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 SCALE N/A</p>	<p>REV A</p> <p>PART NUMBER LCAD30030</p> <p>DRAWN BY BPUCHASKI</p> <p>CAGE CODE A 43321</p>
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