

Coaxial Adapter, SMA Male / RP-SMA Female



LCAD30031

Configuration

- SMA Male Connector 1
- SMA Female 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 LCAD30031 is a straight adapter with a male to female configuration. This Coaxial Adapter, SMA Male / RP-SMA Female 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	

Mechanical Specifications

Size			
Length		0.72in	18.29mm]
Width		0.25in	[6.35mm]
Description	Connector 1	Connector 2	
Type	SMA Male	SMA Female	
Polarity	Standard	Reverse Polarity	
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]		

Material Specifications

	Connector 1	Connector 2

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Description	Material	Plating	Material	Plating
Type	SMA Male		SMA Female Reverse Polarity	
Contact	Brass	Gold	Brass	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 Male / RP-SMA Female 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 Male / RP-SMA Female

L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	01/15/2020
		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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SIZE A CASE CODE 43321 DRAWN BY BPUCHASKI PART NUMBER LCAD30031 REV A

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] / -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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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