

SMA Female to SMA Female Adapter



LCAD9070

Configuration

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

Description

The L-com LCAD9070 Standard adapter has a straight body geometry and is suitable for general-purpose test applications. This RF adapter has an SMA Female to SMA Female connector and a PTFE dielectric, which makes it resistant to lubricants and fuels. The Female coaxial adapter has a Beryllium Copper contact and a maximum operating AC voltage of 335 Vrms.

This Standard adapter has an SMA interface compliant with MIL-STD-348 that brings interoperability of coaxial connectors, as well as a basis for the Hi-Rel design and construction of these components. This L-com 335 Vrms connector RF adapter can operate at a temperature range of -65 to 165 deg C and has high repeatability.

The LCAD9070 coaxial adapter has a maximum frequency range of 18 GHz and is most used for Testing, Measurement, Satcom, Military, and Defense industries. This RF adapter has Gold over Nickel plating and is designed to enable connections in RF and microwave systems between two of the same or different connector types. The L-com SMA adapter is constructed with a Passivated Stainless Steel body and has no plating.

The SMA Female adapter is one of the thousands of RF products available from L-com in-stock inventory with same-day shipment for domestic and international orders. Make your online purchase right now for a high-quality 18 GHz coaxial adapter and take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the perfect Beryllium Copper RF adapter for your requirement.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
VSWR			1.25:1	
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Values at 25°C, sea level.

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Mechanical Specifications

Size		
Length	0.5in	12.7mm]
Width	0.25in	[6.35mm]
Height	0.25in	[6.35mm]
Weight	0.0065lbs	[2.95g]

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Contact Captivation Method	Epoxy	Epoxy

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		SMA Female	
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor	Passivated Stainless Steel	QQ-P-35	Passivated Stainless Steel	QQ-P-35
Body	Passivated Stainless Steel		Passivated Stainless Steel	

Environmental Specifications

Temperature

Operating Range	-65°C to +165°C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

SMA Female to SMA Female Adapter 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.

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L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	10/6/2022
		APPROVED AGANWANI

SMA FEMALE

EPOXY CAPTIVATION

1/4-36 UNS-2A

.218
[5.54]
FLATS

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

TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS ± 1/32	ANGLES ± 1°
.XX = ±.02 [1.51]		
.XXX = ±.005 [1.13]		

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.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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ITEM NO. LCAD9070

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