

RP-SMA Female to RP-SMA Female Bulkhead Mount Adapter



LCAD9593

Configuration

- SMA Female Reverse Polarity Connector 1
- SMA Female Reverse Polarity Connector 2
- Impedance 50 Ohm
- Straight Body Geometry
- Bulkhead Mount Method

Description

The L-com LCAD9593 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 500 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. The LCAD9593 coaxial adapter has Bulkhead mount and is suitable for rack-mounted equipment. This L-com 500 Vrms connector RF adapter can operate at a temperature range of -65 to 165 deg C and has high repeatability.

The LCAD9593 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 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)			500	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	0.875in	22.23mm]
Width	0.375in	[9.53mm]
Height	0.375in	[9.53mm]
Weight	0.0101lbs	[4.58g]

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

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

RP-SMA Female to RP-SMA Female Bulkhead Mount Adapter from L-com has same day shipment for domestic and International

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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.

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L-com CAD Drawing

REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	10/06/2022
		APPROVED AGANWANI

$\phi .250^{+.005}_{-.000}$
 $[6.35^{+.013}_{0.00}]$
 $.235^{+.005}_{-.000}$
 $[5.97^{+0.13}_{0.00}]$

$\phi .036$
 $[0.91]$
 TYP.

REVERSE POLARITY
 SMA FEMALE

REVERSE POLARITY
 SMA FEMALE

.232 [5.9] FLAT

1/4-36 UNS-2A

5/16 HEX

1/4-36 UNS-2A

3/8 HEX

EPOXY CAPTIVATION

.065 [1.65]

.575 [14.61]

.255 [6.48] MAX PANEL

.875 [22.23]

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THIRD-ANGLE PROJECTION

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 SHEET 1 OF 1
 SCALE N/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.

SIZE A CASE CODE A DRAWN BY KGLEBOVA ITEM NO. LCAD9593 REV A

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