

Low PIM N Female to SMA Male Adapter



**LCAD91178**

**Configuration**

- N Female Connector 1
- SMA Male Connector 2
- Impedance 50 Ohm
- Low PIM Design
- Straight Body Geometry

**Description**

The L-com LCAD91178 Low PIM adapter has a straight body geometry and is suitable for general-purpose test applications. This RF adapter has an N Female to SMA Male connector and a PTFE dielectric, which makes it resistant to lubricants and fuels. The Female coaxial adapter has a Beryllium Copper contact.

This Low PIM adapter has an N interface that brings interoperability of coaxial connectors, as well as a basis for the Hi-Rel design and construction of these components. This L-com connector RF adapter can operate at a temperature range of -45 to 125 deg C and has high repeatability.

The LCAD91178 coaxial adapter has a maximum frequency range of 6 GHz and is most used for Testing, Measurement, Satcom, Military, and Defense industries. This RF adapter has Silver plating and is designed to enable connections in RF and microwave systems between two of the same or different connector types. The L-com N adapter is constructed with a body and has no plating.

The N 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 6 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		6	GHz
VSWR			1.2:1	
Insertion Loss			0.1	dB
Passive Intermodulation			-160	dBc
	using two 20W tones			

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

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**Mechanical Specifications**

<b>Size</b>		
Length	1.2in	30.48mm]
Width	0.22in	[5.59mm]
Height	0.22in	[5.59mm]
Weight	0.0675lbs	[30.62g]

Description	Connector 1	Connector 2
Type	N Female	SMA Male
Polarity	Standard	Standard
Hex Size		8 mm

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	N Female		SMA Male	
Contact	Beryllium Copper	Silver	Beryllium Copper	Silver
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Tri-Metal		
Body			Brass	Tri-Metal
Coupling Nut			Passivated Stainless Steel	

**Environmental Specifications**

**Temperature**

Operating Range	-45°C to +125°C
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Low PIM N Female to SMA Male 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

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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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## L-com CAD Drawing

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

  

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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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1  
SCALE N/A

SIZE	CASE CODE	DRAWN BY	ITEM NO.
A	43321	KGGLEBOVA	LCAD91178
			REV A