

Low PIM SMA Female to 7/16 DIN Male Adapter, Low VSWR



LCAD91036

Configuration

- SMA Female Connector 1
- 7/16 DIN Male Connector 2
- Impedance 50 Ohm
- Low PIM Design
- Straight Body Geometry

Features

- Max VSWR of 1.09:1 up to 7.5 GHz
- PIM levels lower than -170 dBc
- SMA Interface compliant with MIL-STD-348
- 7/16 DIN Interface compliant with IEC 169-4
- Gold Plated Beryllium Copper Contact
- 200 µin min Gold Contact Plating

Applications

- Allows Connection Between Series
- General Purpose Test

Description

The L-com LCAD91036 Low PIM adapter has a straight body geometry and is suitable for general-purpose test applications. This RF adapter has an SMA Female to 7/16 DIN 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 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 connector RF adapter can operate at a temperature range of -55 to 155 deg C and has high repeatability.

The LCAD91036 coaxial adapter has a maximum frequency range of 7.5 GHz and is most used for Testing, Measurement, Satcom, Military, and Defense industries. This RF adapter has Gold 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 7.5 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		7.5	GHz
VSWR			1.09:1	
Passive Intermodulation			-170	dBc

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Dielectric Withstanding Voltage (AC)	1,000	Vrms
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Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Size		
Length	1.18in	29.97mm]
Width	1.25in	[31.75mm]
Height	1.25in	[31.75mm]
Weight	0.1917lbs	[86.95g]

Description	Connector 1	Connector 2
Type	SMA Female	7/16 DIN Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	IEC 169-4
Mating Cycles	100	500
Hex Size		1 1/2 in.
Mating Torque	221 to 265 in-lbs 24.97 to 29.95 Nm	

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		7/16 DIN Male	
Contact	Beryllium Copper	Gold 200 µin minimum	Beryllium Copper	Gold 200 µin minimum
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Tri-Metal 100 µin minimum		
Body			Brass	Tri-Metal 100 µin minimum
Coupling Nut			Brass	Tri-Metal 100 µin minimum

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L-com CAD Drawing

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

REV A

CASE CODE	DRAWN BY	ITEM NO.	REV
A	43321	KGLEBOVA	LCAD91036