

Coaxial Adapter, QN Male / N Female, Low PIM



LCAD30040

Configuration

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

Features

- PIM levels lower than -160
- Maximum VSWR of 1.2:1
- Rated to 6 GHz
- Silver Plated Beryllium Copper Contact

Applications

- Low PIM
- Adapter for Between Series Connections
- Lab and General Purpose Test

Description

These L-com RF Coaxial Adapters are used to interface between QN to N coaxial connection interfaces. The LCAD30040 is a straight adapter with a Male to Female configuration. This coaxial adapter, QN Male / N Female is made from Brass and has a Tri-Metal finish.

This between series QN Male to N Female LCAD30040 adapter is rated to 6 GHz with a low VSWR of 1.2:1. The design on this connector allows for low PIM applications with PIM ratings lower than -160 dBc.

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		6	GHz
VSWR			1.2:1	
Return Loss			20.83	dB
Passive Intermodulation			-160	dBc
Dielectric Withstanding Voltage (AC)			1,000	Vrms

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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.2:1				

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

Mechanical Specifications

Size

Length	1.409in	35.79mm]
Width	0.709in	[18.01mm]
Height	0.709in	[18.01mm]
Weight	0.5lbs	[226.8g]

Description	Connector 1	Connector 2
Type	QN Male	N Female
Polarity	Standard	Standard
Contact Captivation Axial Force, Min	6.07 lbs [2.75 kg]	6.07 lbs [2.75 kg]

Material Specifications

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

Environmental Specifications

Temperature

Operating Range	-40°C to +155°C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Coaxial Adapter, QN Male / N Female, Low PIM 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	03/24/2022
		APPROVED AGANWANI

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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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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CASE CODE	DRAWN BY	ITEM NO.	REV
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