Coaxial Adapter, QN Female / QN Female, Low PIM

LCAD30041

Configuration

- QN Female Connector 1
- QN 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 QN coaxial connection interfaces. The LCAD30041 is a straight adapter with a Female to Female configuration. This coaxial adapter, QN Female / QN Female is made from Brass and has a Tri-Metal finish.

The in-series QN Female to QN Female LCAD30041 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	1.425in	36.2mm]
Width	0.492in	[12.5mm]
Height	0.492in	[12.5mm]
Weight	0.5lbs	[226.8g]

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

Material Specifications

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

Environmental Specifications

Temperature

Operating Range	-40ºC to +155ºC

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Compliance Certifications (see product page for current document)

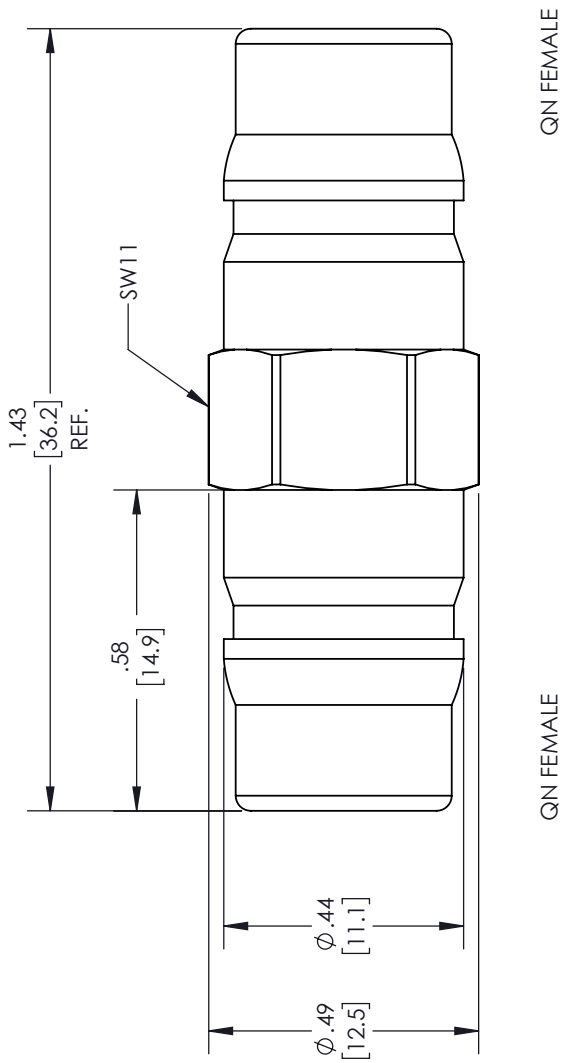
Plotted and Other Data

Coaxial Adapter, QN Female / QN 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.

L-com CAD Drawing

REVISIONS

REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	03/24/2022	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%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	43321	VTHANGARAJ	LCAD30041	A

SHEET 1 OF 1

SCALE N/A

T-Rev.D