

Coaxial Adapter, TNC Female / QMA Male, Low PIM



LCAD30042

Configuration

- TNC Female Connector 1
- QMA Male Connector 2
- Impedance 50 Ohm
- Low PIM Design
- Straight Body Geometry

Features

- PIM levels lower than -155
- Maximum VSWR of 1.3:1
- 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 TNC to QMA coaxial connection interfaces. The LCAD30042 is a straight adapter with a Female to Male configuration. This coaxial adapter, TNC Female / QMA Male is made from Brass and has a Tri-Metal finish.

This between series TNC Female to QMA Male LCAD30042 adapter is rated to 6 GHz with a low VSWR of 1.3:1. The design on this connector allows for low PIM applications with PIM ratings lower than -155 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			1.3:1	
Return Loss			16.98	dB
Passive Intermodulation			-155	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	1.2:1	1.3:1				

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

Mechanical Specifications

Size

Length	1.331in	33.81mm]
Width	0.472in	[11.99mm]
Height	0.472in	[11.99mm]
Weight	0.5lbs	[226.8g]

Description	Connector 1	Connector 2
Type	TNC Female	QMA Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	MIL-STD-348A

Material Specifications

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

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, TNC Female / QMA Male, 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

QMA MALE

TNC FEMALE

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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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.

SIZE A

CAGE CODE 43321

DRAWN BY VTHANGARAJ

ITEM NO. LCAD30042

REV A

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