



QMA Male Right Angle Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF

RF Connectors Technical Data Sheet



TC-402-QM-RA-LP

Times Microwave Systems Connector Specification

Configuration

- QMA Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: TFT-402, TFT-402-LF
- Low PIM Design

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.2:1
- PIM levels lower than -150 dBc
- Silver Plated Beryllium Copper Contact
- 200 µin contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies
- Distributed Antenna Systems (DAS)
- Wireless Communications
- Low PIM Applications

Description

Pasternack's TC-402-QM-RA-LP QMA male right angle connector with solder/solder attachment for TFT-402 and TFT-402-LF is part of our full line of RF components available for same-day shipping. Our QMA male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.2:1. The QMA male connector also has low passive intermodulation of -150 dBc. Its right angle body geometry allows for easier connections in tight spaces.

Our QMA male right angle connector TC-402-QM-RA-LP datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.2:1	
Insertion Loss			0.173	dB
Passive Intermodulation			-150	dBc
Operating Voltage (DC)			1,000	Vdc
Insulation Resistance	5,000			MOhms

Electrical Specification Notes:
Insertion Loss is $0.1 \times \sqrt{f(\text{GHz})}$

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-QM-RA-LP](#)



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Mechanical Specifications

Size

Length 0.75 in [19.05 mm]
Width/Dia. 0.413 in [10.49 mm]

Mating Cycles 100 Cycles
Cable Retention Force 33 lbs [14.97 kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Silver 200 µin
Insulation	PTFE	
Body	Brass	Tri-Metal 80 µin
Coupling Nut	Brass	Tri-Metal 80 µin

Environmental Specifications

Temperature

Operating Range -40 to +85 deg C
Shock MIL-STD 202G, Meth. 213, Cond. I
Vibration MIL-STD 202G, Meth. 204, Cond. D
Thermal Shock MIL-STD 202G, Meth. 107, Cond. B

Environmental Specification Notes:
Climatic Class: IEC 60068 40/85/21

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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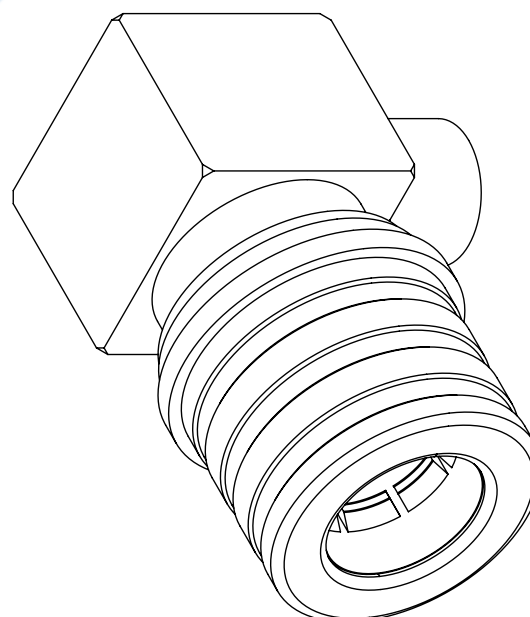
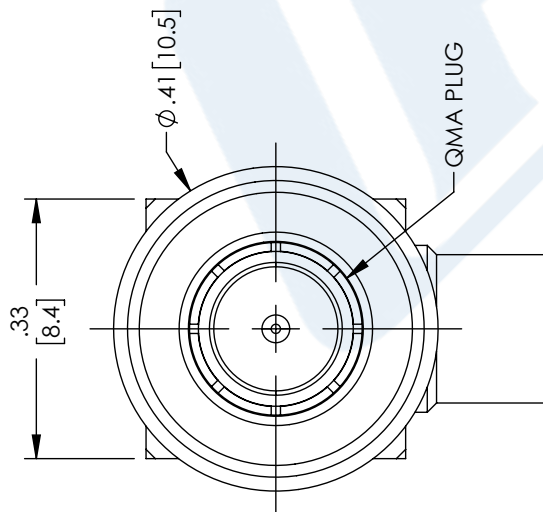
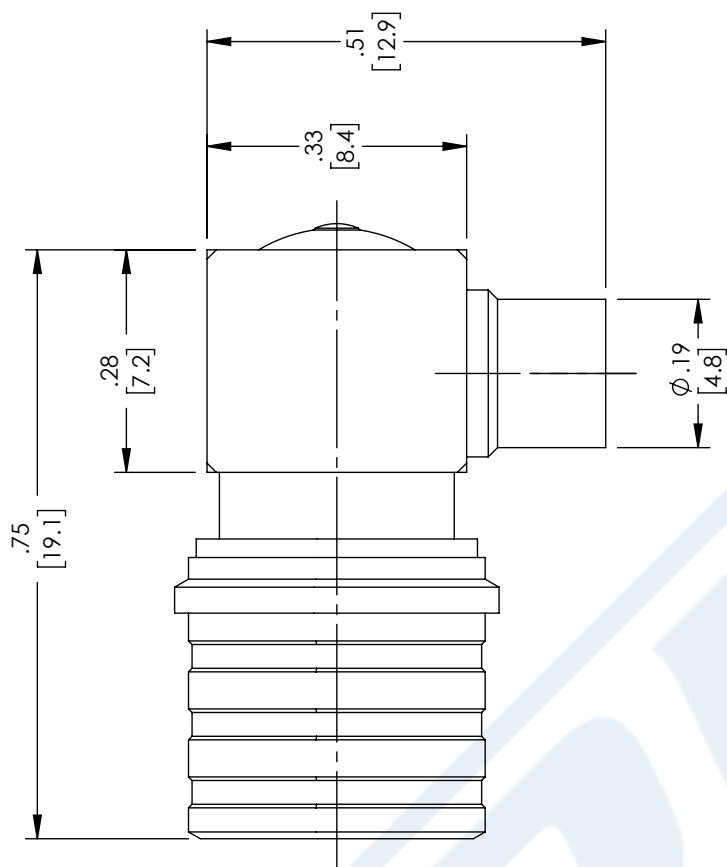
TC-402-QM-RA-LP

QMA Male Right Angle Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Right Angle Low PIM Connector Solder Attachment for TFT-402, TFT-402-LF TC-402-QM-RA-LP](https://www.pasternack.com/qma-male-tft-402-connector-tc-402-qm-ra-lp-p.aspx)

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The information contained in 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. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS			THIRD-ANGLE PROJECTION		
TOLERANCES:			 THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.		
X = ± .2 [5.08] .XX = ± .02 [.51] .XXX = ± .005 [.13]			SHEET 1 OF 1		
CABLE LENGTH (L) TOLERANCES:			SCALE 4:1		
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			REV A		
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY			TC-402-QM-RA-LP		
PASTERNAK an INFINITE brand			ITEM NO.		
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SIZE A			CAGE CODE 53919		