

QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405



PE44495

Configuration

- QMA Male Connector
- 50 Ohms
- Straight Body Geometry
- Solder/Solder Method
- Connector Interface Types: PE-SR405AL, PE-SR405FL, RG405

Features

- Max. Operating Frequency 18 GHz
- PIM levels lower than -130 dBc
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44495, QMA, Standard, Connector 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 18 GHz. The QMA male connector also has low passive intermodulation of -130 dBc.

Our QMA male connector PE44495 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		18	GHz
Return Loss		23	32	dB
Passive Intermodulation		-130		dBc
Operating Voltage (AC)			250	Vrms
Test Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	70			dB
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
Return Loss, Max	32	23				dB

Electrical Specification Notes:

Insertion Loss = $0.05 * \text{SQRT } f(\text{GHz})$

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Mechanical Specifications

Size	
Length	0.67 in [17.02 mm]
Width	0.413 in [10.49 mm]
Height	0.413 in [10.49 mm]
Weight	0.013 lbs [5.9 g]
Mating Cycles	100 Cycles
Cable Retention Force	13.48 lbs [6.11 kg]
Engagement Force	5.62lbs [2.55kg]
Disengagement Force	4.49lbs [2.04kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Bronze	Tri-Metal
Body	Brass	Gold
Coupling Nut	Brass	Nickel

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C
Vibration	IEC 60068-2-64 random
Thermal Shock	IEC 60169-1 16.4 (-40 / +85°C)
Salt Spray	IEC 60169-1 16.7 (48 hrs)

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

Plotted and Other Data

Notes:

QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405 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 Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405 PE44495](#)

URL: <https://www.pasternack.com/qma-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44495-p.aspx>

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

PE44495 CAD Drawing

QMA Male Connector Solder Attachment For PE-SR405AL, PE-SR405FL, RG405

REVISIONS		
REV.	DESCRIPTION	DATE
B	PCR-REVISED DIMENSIONS	03/24/2022
		APPROVED AGANWANI

STRIPPING DIMENSIONS
ASSEMBLY PROCEDURE

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SLIDE CABLE INTO CONNECTOR, ENSURING CENTER CONDUCTOR MATES WITH CENTER PIN.
3. OUTER CONDUCTOR BOTTOMS OUT WITH BODY SHOULDER. SOLDER OUTER CONDUCTOR TO CONNECTOR BODY.

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <p>.X = ±.2 [5.08] .XX = ±.02 [1.51] .XXX = ±.005 [13] ANGLES ± 1°</p> <p>FRACTIONS ± 1/32</p> <p>CABLE LENGTH (L) TOLERANCES:</p> <p>L ≤ 12 [305] = ±1.25 / -0 12 [305] < L ≤ 60 [1524] = ±2.63 / -0 60 [1524] < L ≤ 120 [3048] = ±4.102 / -0 120 [3048] < L ≤ 300 [7620] = ±6.182 / -0 300 [7620] < L = +5%L / -0</p> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DIMENSIONS SHOWN HEREIN IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>	<p>PE PASTERNAK an INFINITE brand</p> <p>Pasternack Enterprises, Inc. P.O. Box 16759, Irvine, CA 92623. Phone: 1.949.261.1920 1.866.727.8376 Fax: 1.949.261.7451 Website: www.pasternack.com E-mail: sales@pasternack.com</p> <p>SIZE A CAGE CODE 53919 DRAWN BY AKRESOWSK ITEM NO. PE44495 REV B</p>
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