



QMA Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS

RF Connectors Technical Data Sheet

PE44502

Configuration

- QMA Male Connector
- 50 Ohms
- Straight Body Geometry
- RG316-DS, RG188-DS Interface Type
- Crimp/Solder Attachment

Features

- Max. Operating Frequency 18 GHz
- Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44502 QMA male connector with crimp/solder attachment for RG316-DS and RG188-DS 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.

Our QMA male connector PE44502 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
Insertion Loss			0.13	dB
Operating Voltage (AC)			350	Vrms
Test Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 4	4 to 6			GHz
VSWR, Max	1.09:1	1.12:1	1.15:1			

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 Crimp/Solder Attachment for RG316-DS, RG188-DS PE44502](#)



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Electrical Specification Notes:

RF leakage: 95 dB (up to 2 GHz), 80 dB (up to 4 GHz), 70 dB (up to 6 GHz) min.
Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max up to 6 GHz.

Mechanical Specifications

Size

Length	0.96 in [24.38 mm]
Width/Dia.	0.41 in [10.41 mm]
Weight	0.015 lbs [6.8 g]
Mating Cycles	100 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Outer Conductor	Spring Bronze	Tri-Metal
Body	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +85 deg C
Storage Range	-40 to +85 deg C

Humidity	IEC 60169-1 16.3 (96 hours)
Vibration	IEC 60068-2-64 random
Thermal Shock	IEC 60169-1 16.4 (-40/+85°C)
Salt Spray	IEC 60109-1 16.7 (48 hrs)

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

Plotted and Other Data

Notes:

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Assembly Instruction

QMA Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS 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.

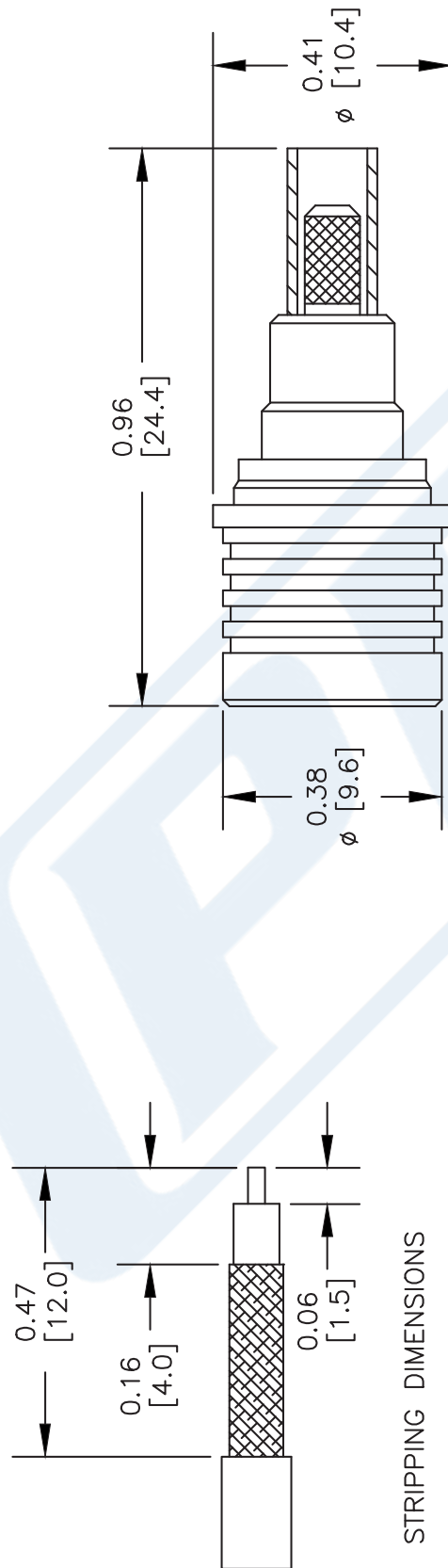
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS PE44502](https://www.pasternack.com/qma-male-standard-rg316-ds-connector-pe44502-p.aspx)

URL: <https://www.pasternack.com/qma-male-standard-rg316-ds-connector-pe44502-p.aspx>

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.

PE44502 CAD Drawing

QMA Male Connector Crimp/Solder Attachment for RG316-DS, RG188-DS



CRIMP SIZE REQUIRED

CONTACT: SOLDER
FERRULE: .128" HEX CRIMP TOOL



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DWG TITLE

PE44502

FSCM NO. 53919

SCALE N/A

SIZE A

2233

NOTES:

1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 032213-D