PASTERNACK
an INFINITE brand

QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68

RF Connectors
Technical Data Sheet

PE44604

Configuration

- QN Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402
- Low PIM Design

Features

- Max. Operating Frequency 8 GHz
- PIM levels lower than -160 dBc
- Gold Plated Brass Contact
- IP68 0.3 bar (interface only)

Applications

- General Purpose Test
- Wireless Communications
- Custom Cable Assemblies
- Low PIM Applications

Description

Pasternack's PE44604 QN male right angle connector with solder/solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 is part of our full line of RF components available for same-day shipping. Our QN male connector operates up to a maximum frequency of 8 GHz. The QN male connector also has low passive intermodulation of -160 dBc. Its right angle body geometry allows for easier connections in tight spaces. The connector has an IP68 rating to protect against dust and prolonged moisture protection under immersion conditions.

Our QN male right angle connector PE44604 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		8	GHz
Passive Intermodulation using 2x20W tones			-160	dBc
Operating Voltage (AC)			1,000	Vrms
Test Voltage (AC)			2,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1.5	mOhms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68 PE44604

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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RF Connectors
Technical Data Sheet

PE44604

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2.5	2.5 to 4	4 to 6			GHz
VSWR, Max	1.06:1	1.09:1	1.12:1			

Electrical Specification Notes:
RF leakage: 90 dB (up to 3 GHz) min.
Insertion loss = 0.05 x sqrt(fGHz) dB max.

Mechanical Specifications

Size

Length	1.039 in [26.39 mm]
Width/Dia.	0.75 in [19.05 mm]
Weight	0.052 lbs [23.59 g]
Mating Cycles	100 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	PTFE	
Outer Conductor	Brass	Tri-Metal
Body	Brass	Silver 3 µm minimum

Environmental Specifications

Temperature

Operating Range	-40 to +125 deg C
Ingress Protection (IP) Rating	IP68 0.3 bar (interface only)
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Condition I
Vibration	MIL-STD-202, Method 204, Condition A
Thermal Shock	MIL-STD-202, Method 107, Condition B
Salt Spray	MIL-STD-202, Method 101, Condition B

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RF Connectors
Technical Data Sheet

PE44604

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68 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: QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68 PE44604

URL: https://www.pasternack.com/qn-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe44604-p.aspx

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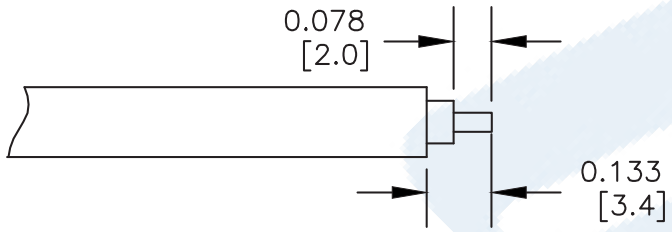
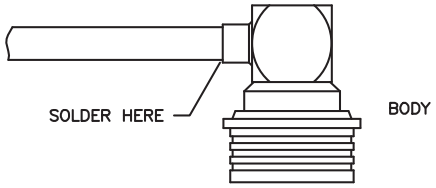
PE44604 CAD Drawing

QN Male Right Angle Low PIM Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, IP68

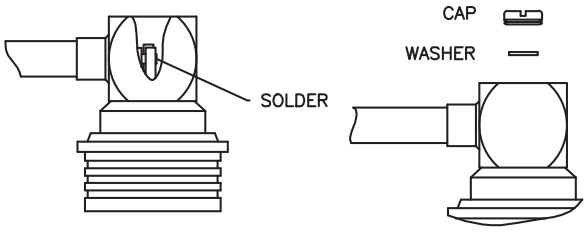
1. STRIP CABLE AS SHOWN.

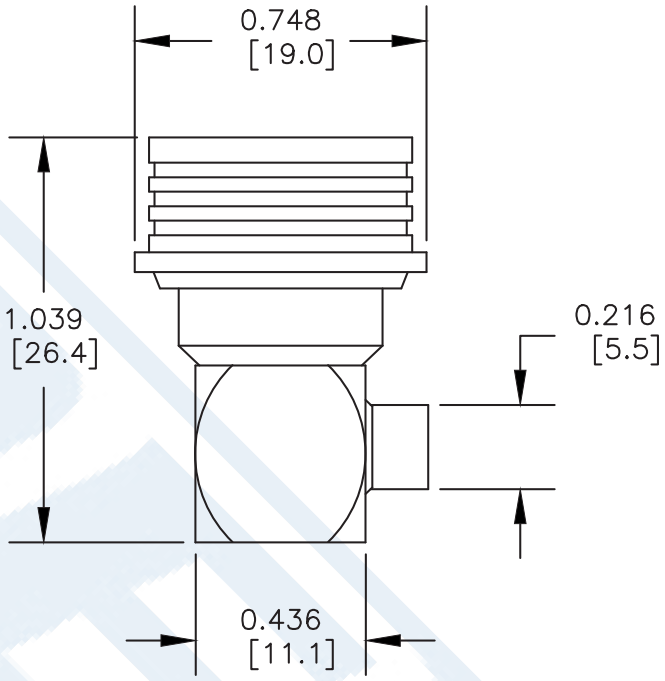


2. INSERT THE STRIPPED CABLE INTO BODY AND POSITION THE CENTER CONDUCTOR IN THE SLOT OF THE CENTER PIN. SOLDER THE CONNECTOR BODY TO CABLE SHIELD.



3. SOLDER THE CENTER CONDUCTOR OF THE CABLE TO THE CENTER PIN. PLACE WASHER AND TIGHTEN THE CAP DOWN.





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DWG TITLE
PE44604

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.

FSCM NO. 53919	CAD FILE 082908	SCALE N/A	SIZE A	XXXX

QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402

PE44599

Configuration

- QN Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR402FL, RG402

Features

- Max. Operating Frequency 6 GHz
- PIM levels lower than -160 dBc
- Silver Plated Brass Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44599 , QN, Standard, Connector is part of our full line of RF components available for same-day shipping. Our QN male connector operates up to a maximum frequency of 6 GHz. The QN male connector also has low passive intermodulation of -160 dBc.

Our QN male connector PE44599 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		6	GHz
Passive Intermodulation		-160		
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.25:1				

Mechanical Specifications

Size

Length	0.992 in [25.2 mm]
Width	0.748 in [19.00 mm]
Weight	0.0375 lbs [17.01 g]

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QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402

PE44599

Material Specifications

Description	Material	Plating
Contact	Brass Copper	Silver
Insulation	PTFE	
Body	Brass	Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +155 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

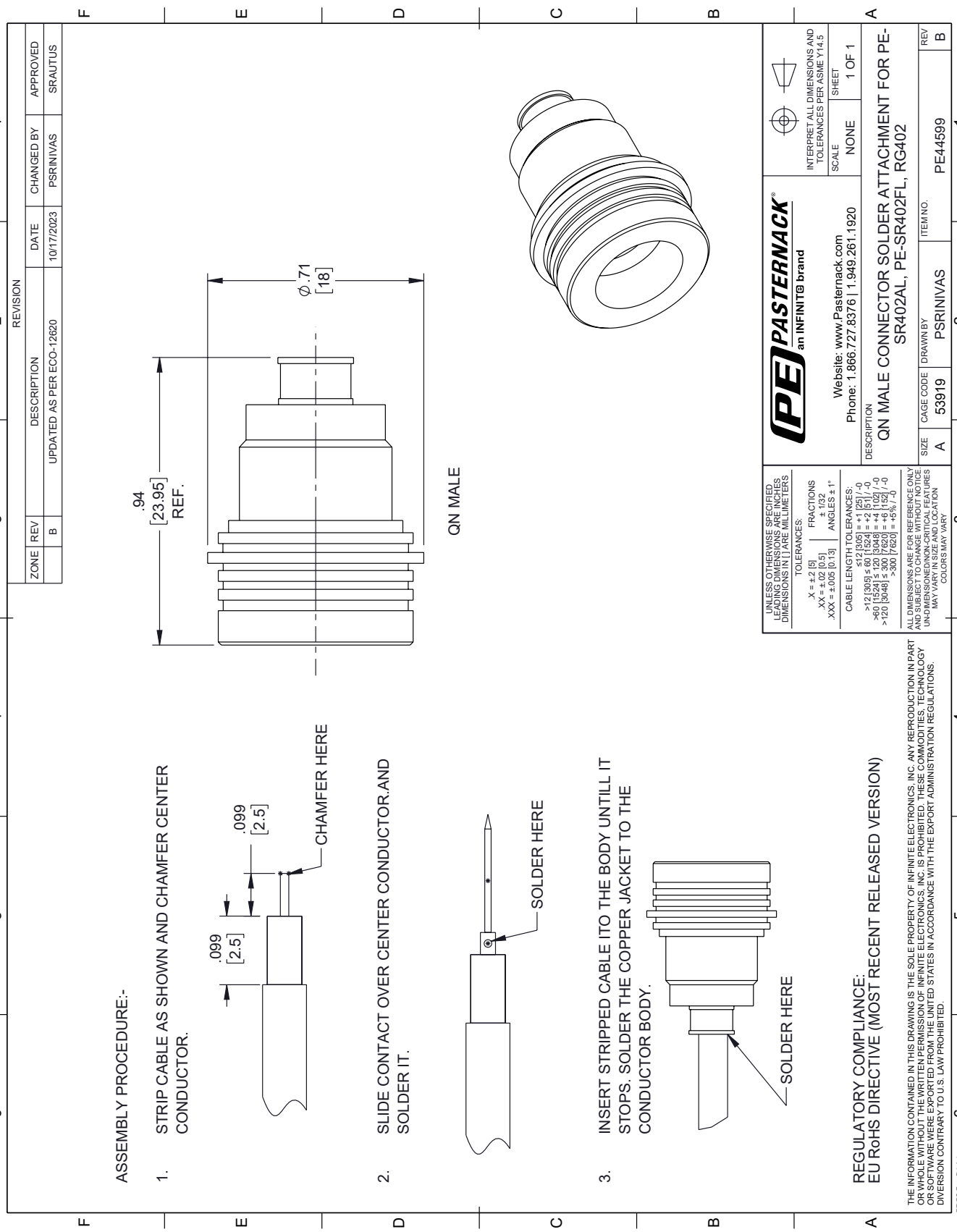
QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402 PE44599

URL: https://www.pasternack.com/qn-male-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe44599-p.aspx

PE44599 CAD Drawing

QN Male Connector Solder Attachment For PE-SR402AL, PE-SR402FL, RG402



RG402 Coax Cable with Copper Outer Conductor

RG402/U

Configuration

- Semi-Rigid Cable
- M17/130-RG402
- 1 Shield(s)

Features

- Frequency range of 34 GHz
- Can be bent and formed into shape
- Low Loss
- Phase Stable

Applications

- Military & Defense
- Cable Assemblies
- Precise cable routing

Description

RG402/U part number from Pasternack is a RG402 coax cable that is semi-rigid. Pasternack RG402 semi-rigid coax cable is 50 Ohm and has a PTFE dielectric.RG402 coax has a shield count of 1 and the maximum frequency for this Pasternack cable is 34 GHz. RG402 coax cable has an attenuation at 1 GHz of 11.1 dB and a maximum power of 450 watts at 1 GHz.

Pasternack RG402 coax cables are part of over 40,000 RF, microwave and millimeter wave components. RG402 cables and our other RF parts are available for same day shipping worldwide. Custom RF cable assemblies using RG402 or other coax can be built and shipped same day as well.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		69.5		%
Dielectric Withstanding Voltage (AC)			5,000	Vrms
Corona Discharge at 60 Hz			1,900	Vrms
Power@ 1GHz			450	Watts

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	10	18	26.5	GHz
Attenuation, Typ	7.6	11.1	43.4	63.6	82.8	dB/100ft
	24.93	36.42	142.39	208.66	271.65	dB/100m
Input Power (CW), Max	600	450	120	73	70	Watts

Mechanical Specifications

Weight	0.032 lbs/ft [0.05 kg/m]
Min. Bend Radius (Repeated)	0.25 in [6.35 mm]

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RG402 Coax Cable with Copper Outer Conductor

RG402/U

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Copper Clad Steel, Silver, 1 Strand	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE	0.118 in [3 mm]
Outer Conductor	Copper	0.141 in [3.5 mm]
Jacket	Tan	

Environmental Specifications

Temperature

Operating Range	-55 to 125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RG402 Coax Cable with Copper Outer Conductor 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: RG402 Coax Cable with Copper Outer Conductor RG402/U

URL: https://www.pasternack.com/semirigid-0.141-rg402-50-ohm-coax-cable-copper-rg402-u-p.aspx

RG402/U CAD Drawing

RG402 Coax Cable with Copper Outer Conductor