



SMA Male Right Angle Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

RF Connectors  
Technical Data Sheet

PE44996

**Configuration**

- SMA Male Connector
- MIL-PRF-39012
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: PE-SR402AL, PE-SR-402FL, PE-SR402FLJ, PE-SR402TN, RG402

**Features**

- Max. Operating Frequency 18 GHz
- Good VSWR of 1.4:1
- Gold over Nickel Plated Beryllium Copper Contact
- 50 µin minimum contact plating

**Applications**

- General Purpose Test
- Custom Cable Assemblies

**Description**

Pasternack's PE44996 SMA male right angle connector with clamp/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 SMA male connector operates up to a maximum frequency of 18 GHz and offers good VSWR of 1.4:1. Its right angle body geometry allows for easier connections in tight spaces.

Our SMA male right angle connector PE44996 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
VSWR			1.4:1	

**Mechanical Specifications**

<b>Size</b>	
Length	1.28 in [32.51 mm]
Width/Dia.	0.395 in [10.03 mm]
Height	0.74 in [18.8 mm]
Weight	0.032 lbs [14.51 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Right Angle Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44996](#)



SMA Male Right Angle Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

## RF Connectors Technical Data Sheet

PE44996

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 µin minimum
Insulation	PTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700

### Environmental Specifications

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

### Plotted and Other Data

Notes:

SMA Male Right Angle Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, 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: [SMA Male Right Angle Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 PE44996](#)

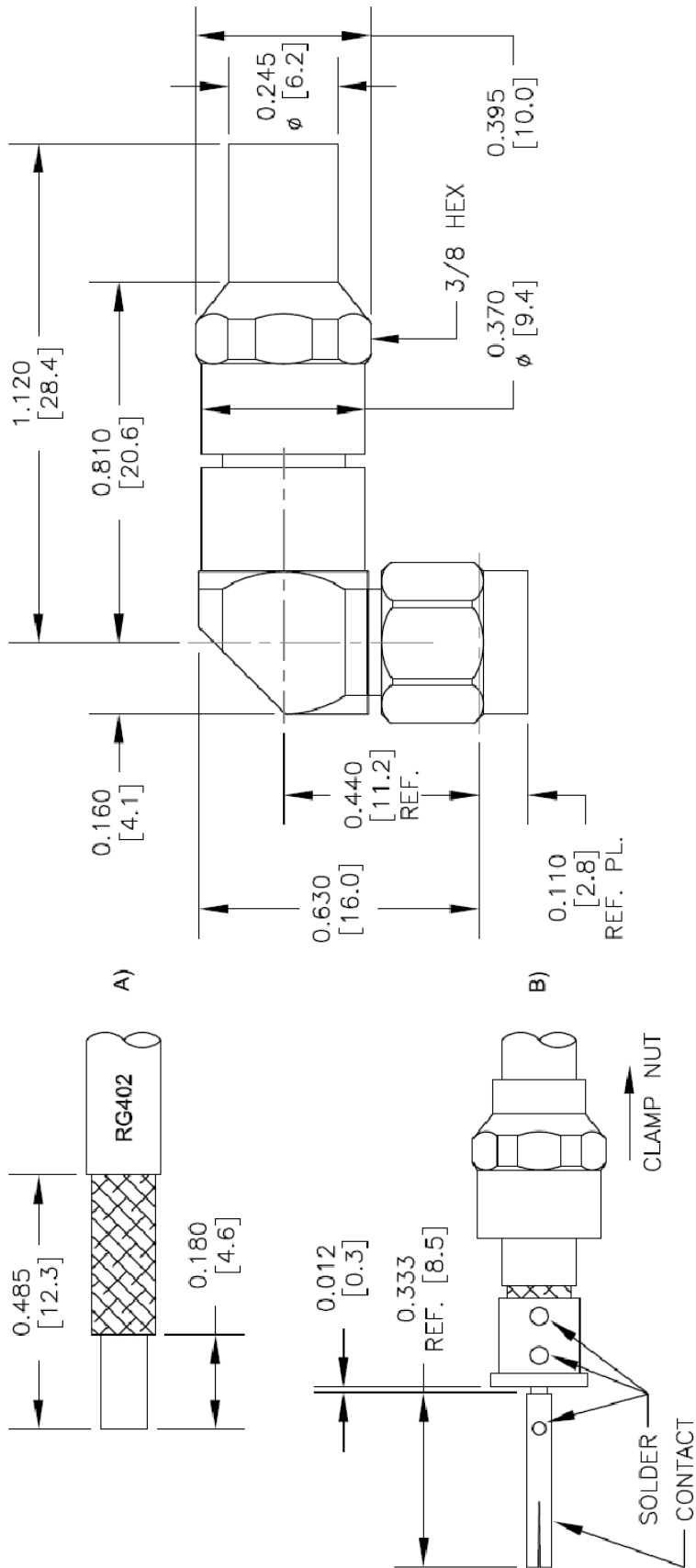
URL: <https://www.pasternack.com/sma-male-pe-sr402al-pe-sr402fl-pe-sr402tn-rg402-connector-pe44996-p.aspx>

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.

# PE44996 CAD Drawing

SMA Male Right Angle Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE44996	5/4/2021	S.ELLIS



## STRIPPING DIMENSIONS

## ASSEMBLY PROCEDURES

1. TRIM CABLE TO EXPOSE DIELECTRIC CORE AND BRAIDS AS SHOWN IN (A).
2. SLIDE CLAMP NUT OVER CABLE AS SHOWN IN (B). INSERT CABLE INTO SOLDER FERRULE UNTIL INNER BRAID SEATS IN FERRULE. THEN SOLDER CABLE BRAIDS TO FERRULE WHERE SHOWN. TRIM CABLE DIELECTRIC FLUSH WITH SOLDER FERRULE FACE. (DO NOT NICK CABLE CENTER CONDUCTOR). SOLDER CONTACT WITH INDICATED GAP.
3. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

<p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS</p> <p>TOLERANCES:</p> <table border="0"> <tr> <td>.X = ±.2</td> <td>[.08]</td> <td>FRACTIONS</td> <td>± 1/32</td> </tr> <tr> <td>.XX = ±.02</td> <td>[.51]</td> <td>ANGLES ± 1°</td> <td></td> </tr> <tr> <td>.XXX = ±.005</td> <td>[.13]</td> <td>CABLE LENGTH (L) TOLERANCES:</td> <td></td> </tr> <tr> <td>L ≤ 12 [305]</td> <td>±.1 [25]</td> <td></td> <td></td> </tr> <tr> <td>12 [305] &lt; L ≤ 60 [1524]</td> <td>±.2 [51]</td> <td></td> <td></td> </tr> <tr> <td>60 [1524] &lt; L ≤ 120 [3048]</td> <td>±.4 [102]</td> <td></td> <td></td> </tr> <tr> <td>120 [3048] &lt; L ≤ 300 [7620]</td> <td>±.6 [152]</td> <td></td> <td></td> </tr> <tr> <td>300 [7620] &lt; L</td> <td>±.9% [L]</td> <td></td> <td></td> </tr> </table> <p>ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.</p>	.X = ±.2	[.08]	FRACTIONS	± 1/32	.XX = ±.02	[.51]	ANGLES ± 1°		.XXX = ±.005	[.13]	CABLE LENGTH (L) TOLERANCES:		L ≤ 12 [305]	±.1 [25]			12 [305] < L ≤ 60 [1524]	±.2 [51]			60 [1524] < L ≤ 120 [3048]	±.4 [102]			120 [3048] < L ≤ 300 [7620]	±.6 [152]			300 [7620] < L	±.9% [L]			<p>THIRD-ANGLE PROJECTION</p> <p>THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF PASTERNAK CORPORATION ALL RIGHTS RESERVED.</p> <p>SHEET 1 OF 1</p> <p>SCALE N/A</p>
	.X = ±.2	[.08]	FRACTIONS	± 1/32																													
.XX = ±.02	[.51]	ANGLES ± 1°																															
.XXX = ±.005	[.13]	CABLE LENGTH (L) TOLERANCES:																															
L ≤ 12 [305]	±.1 [25]																																
12 [305] < L ≤ 60 [1524]	±.2 [51]																																
60 [1524] < L ≤ 120 [3048]	±.4 [102]																																
120 [3048] < L ≤ 300 [7620]	±.6 [152]																																
300 [7620] < L	±.9% [L]																																
<p>PE PASTERNAK an INFINITO 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>REV A</p> <p>DATE 5/4/2021</p> <p>APPROVED S.ELLIS</p>																																
<p>SIZE A</p> <p>CAGE CODE 53919</p> <p>DRAWN BY K.DANG</p> <p>ITEM NO. PE44996</p>	<p>REV A</p>																																

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.



# QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole

## RF Connectors Technical Data Sheet

PE44500

### Configuration

- QMA Female Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 Interface Type
- Solder/Solder Attachment
- Bulkhead

### Features

- Max. Operating Frequency 18 GHz
- PIM levels lower than -120 dBc
- Gold Plated Beryllium Copper Contact

### Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

### Description

Pasternack's PE44500 QMA female bulkhead connector with solder/solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 (.268 inch D hole) is part of our full line of RF components available for same-day shipping. Our QMA female connector operates up to a maximum frequency of 18 GHz. The QMA female connector also has low passive intermodulation of -120 dBc. This QMA bulkhead connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Our QMA female bulkhead connector PE44500 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
Passive Intermodulation using 2x20W tones			-120	dBc
Operating Voltage (AC)			335	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

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole PE44500](#)



QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole

## RF Connectors Technical Data Sheet

PE44500

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 6				GHz
VSWR, Max	1.06:1	1.12:1				

### 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 x sqrt(fGHz) dB max.

### Mechanical Specifications

#### Size

Length	0.787 in [19.99 mm]
Width/Dia.	0.433 in [11.00 mm]
Weight	0.006 lbs [2.72 g]
Mating Cycles	100 Cycles

### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Insulation	PTFE	
Outer Conductor	Brass	Gold
Body	Brass	Gold

### 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)

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole PE44500](#)



QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole

## RF Connectors Technical Data Sheet

PE44500

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

### Plotted and Other Data

Notes:

QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

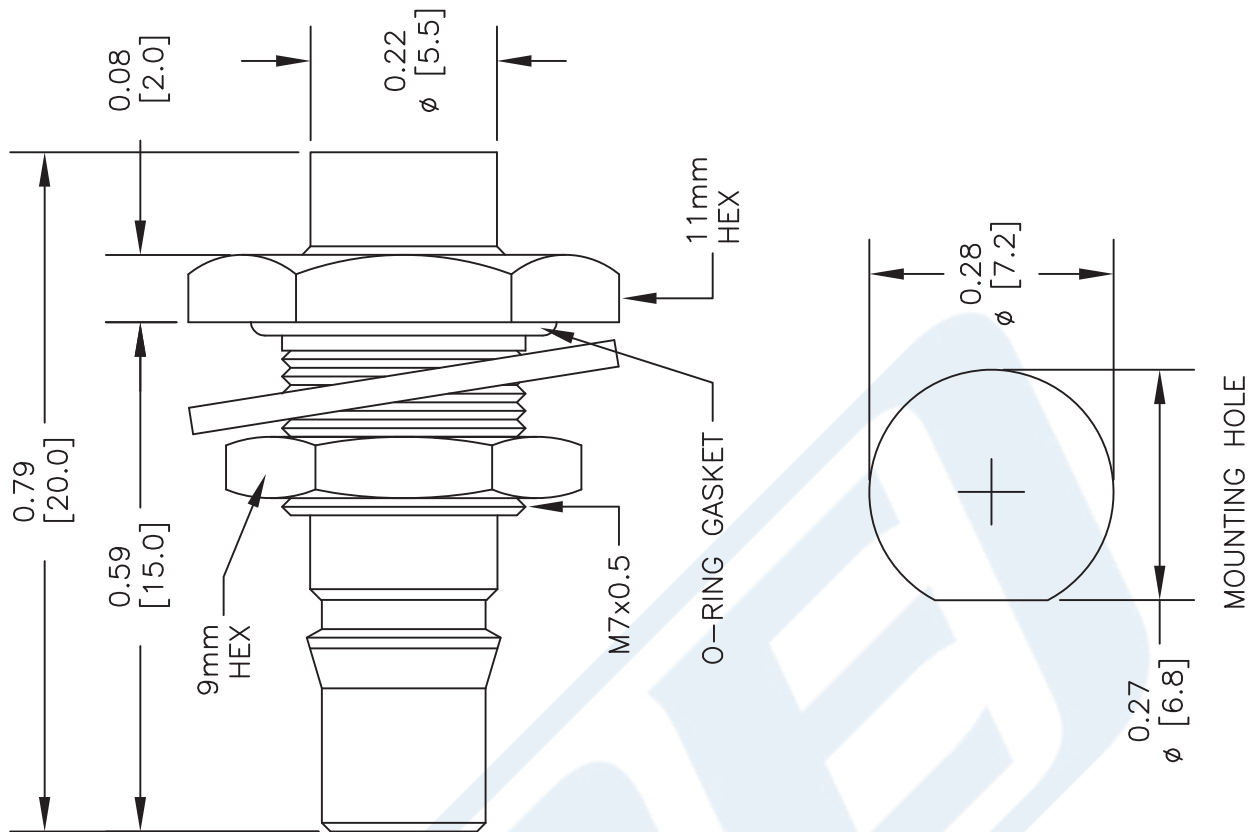
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole PE44500](#)

URL: <https://www.pasternack.com/qma-female-standard-pe-sr402al-pe-sr402fl-rg402-connector-pe44500-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.

# PE44500 CAD Drawing

QMA Female Bulkhead Mount Connector Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402, .268 inch D Hole



MOUNTING HOLE

- 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.

DWG TITLE  
**PE44500**

**PE PASTERNAK**  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
Phone: (949) 261-1920 | Fax: (949) 261-7451  
Website: www.pasternack.com | E-Mail: sales@pasternack.com

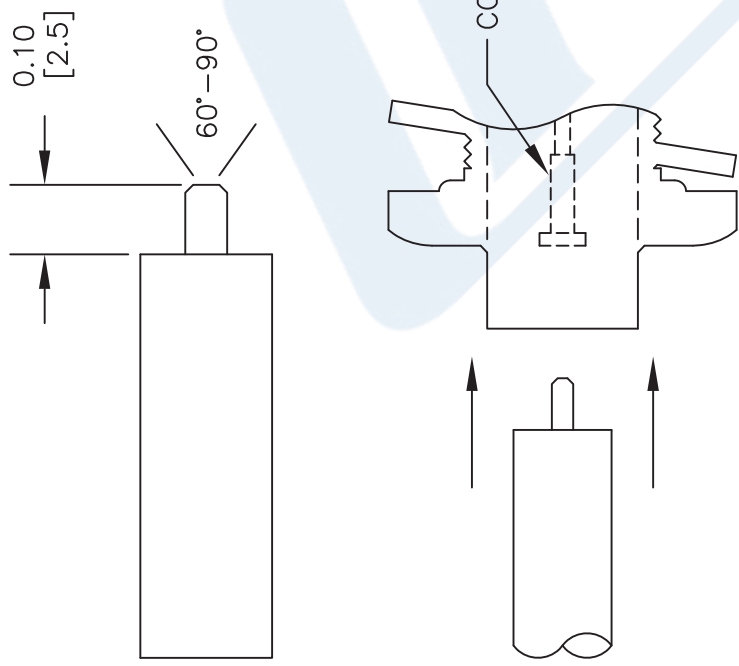
FSCM NO. 53919

CAD FILE 110112-A

SCALE N/A

SIZE A

2233



- STRIPPING DIMENSIONS  
ASSEMBLY PROCEDURES
1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
  2. FILE CHAMFER.
  3. INSERT CABLE INTO CONNECTOR BODY. MATING THE CENTER CONDUCTOR IN TO CAPTIVATE CENTER PIN.
  4. SOLDER CABLE TO CONNECTOR BODY.

## 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	
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]

## 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>

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.

# RG402/U CAD Drawing

RG402 Coax Cable with Copper Outer Conductor

