



SMA Female Bulkhead to Reverse Polarity SMA  
Male Cable 50 cm Length Using RG141 Coax

**RF Cable Assemblies Technical Data Sheet**

**PE3W02965-50CM**

**Configuration**

- Connector 1: SMA Female Bulkhead
- Connector 2: SMA Male Reverse Polarity
- Cable Type: RG141

**Features**

- Max Frequency 6 GHz
- PTFE (FG) Jacket

**Applications**

- General Purpose
- Laboratory Use

**Description**

Pasternack's PE3W02965-50CM SMA female bulkhead to reverse polarity SMA male 50 cm cable using RG141 coax is part of our full line of RF components available for same-day shipping. Pasternack's flexible RF cable assemblies are ideal for applications where tight bends and flexure are required. This Pasternack SMA to reverse polarity SMA cable assembly has a female to male gender configuration with 50 ohm flexible RG141 coax. The PE3W02965-50CM SMA female to reverse polarity SMA male cable assembly operates to 6 GHz. Our RF cable assembly with SMA bulkhead interface 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.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other available RF cable assembly value added services include connector orientation or clocking, heat shrink booting and custom labeling. RF testing can also be performed to document the electrical performance of your cable assembly.

**Electrical Specifications**

| Description     | Minimum | Typical      | Maximum | Units        |
|-----------------|---------|--------------|---------|--------------|
| Frequency Range | DC      |              | 6       | GHz          |
| VSWR            |         |              | 1.5:1   |              |
| Capacitance     |         | 29.4 [96.46] |         | pF/ft [pF/m] |
| Jacket Spark    |         |              | 2,000   | Vrms         |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to Reverse Polarity SMA Male Cable 50 cm Length Using RG141 Coax PE3W02965-50CM](#)



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**Specifications by Frequency**

| Description           | F1    | F2    | F3    | F4    | F5    | Units |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Frequency             | 0.5   | 1     | 2     | 4     | 6     | GHz   |
| Insertion Loss (Max.) | 0.329 | 0.413 | 0.506 | 0.695 | 0.875 | dB    |

**Electrical Specification Notes:**

The Insertion Loss data above is based on the performance specifications of the coax use in this assembly. The Insertion Loss includes an estimated insertion loss of 0.2dB of connector Loss

**Mechanical Specifications**

**Cable Assembly**

Length\* 19.68 in [499.87 mm]

**Cable**

Cable Type RG141  
Impedance 50 Ohms  
Inner Conductor Type Solid  
Inner Conductor Material and Plating Copper Clad Steel, Silver  
Dielectric Type PTFE  
Number of Shields 1  
Shield Layer 1 Silver Plated Copper  
Jacket Material PTFE (FG), Beige  
Jacket Diameter 0.19 in [4.83 mm]

**Connectors**

| Description               | Connector 1         | Connector 2               |
|---------------------------|---------------------|---------------------------|
| Type                      | SMA Female Bulkhead | SMA Male Reverse Polarity |
| Impedance                 | 50 Ohms             | 50 Ohms                   |
| Body Material and Plating | Brass, Nickel       | Brass, Nickel             |

**Mechanical Specification Notes:**

\*All cable assemblies have a length tolerance of 1.5% or  $\pm 3/8"$ , whichever is greater.

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

**Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Bulkhead to Reverse Polarity SMA Male Cable 50 cm Length Using RG141 Coax PE3W02965-50CM](#)



## SMA Female Bulkhead to Reverse Polarity SMA Male Cable 50 cm Length Using RG141 Coax

### RF Cable Assemblies Technical Data Sheet

**PE3W02965-50CM**

#### How to Order

Part Number Configuration:

**PE3W02965**

- **xx**

**uu**

Unit of Measure:  
cm = Centimeters  
<blank> = Inches  
Length  
Base Number

Example: PE3W02965-12 = 12 inches long cable  
PE3W02965-100cm = 100 cm long cable

SMA Female Bulkhead to Reverse Polarity SMA Male Cable 50 cm Length Using RG141 Coax 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 Female Bulkhead to Reverse Polarity SMA Male Cable 50 cm Length Using RG141 Coax PE3W02965-50CM](https://www.pasternack.com/sma-female-sma-male-rg141au-cable-assembly-pe3w02965-50cm-p.aspx)

URL: <https://www.pasternack.com/sma-female-sma-male-rg141au-cable-assembly-pe3w02965-50cm-p.aspx>

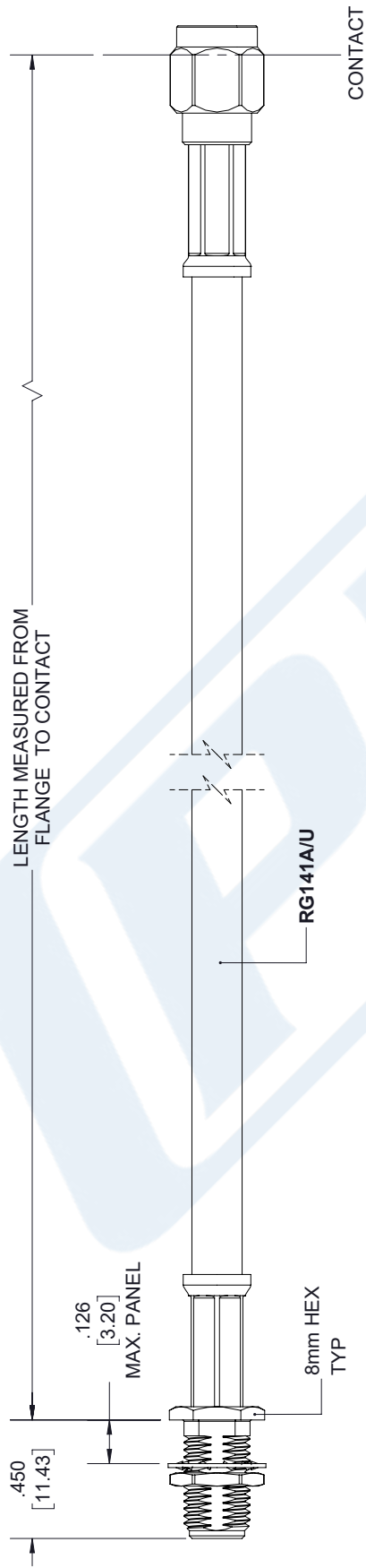
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

# PE3W02965-50CM CAD Drawing

## SMA Female Bulkhead to Reverse Polarity SMA Male

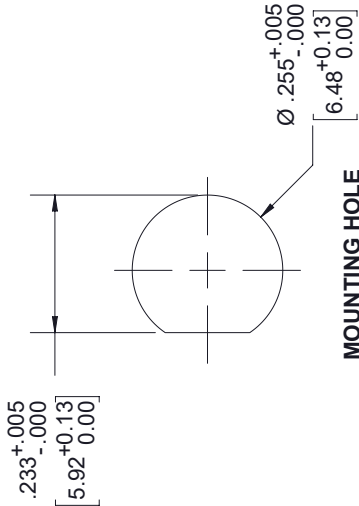
### Cable 50 cm Length Using RG141 Coax

| REVISIONS |                 |          |          |
|-----------|-----------------|----------|----------|
| REV.      | DESCRIPTION     | DATE     | APPROVED |
| A         | INITIAL RELEASE | 04/23/19 | SELLIS   |



SMA FEMALE  
BULKHEAD

RP SMA  
MALE



|                                                                                                  |        |             |       |
|--------------------------------------------------------------------------------------------------|--------|-------------|-------|
| UNLESS OTHERWISE SPECIFIED<br>LEADING DIMENSIONS ARE INCHES<br>DIMENSIONS IN [ ] ARE MILLIMETERS |        |             |       |
| TOLERANCES:                                                                                      |        |             |       |
| X±.2                                                                                             | [5.08] | FRACTIONS   |       |
| .XX±.01                                                                                          | [.25]  |             | ±1/32 |
| .XXX±.005                                                                                        | [.13]  | ANGLES ± 1° |       |
| ALL DIMENSIONS SHOWN<br>ARE FOR REFERENCE ONLY.                                                  |        |             |       |
| THIRD-ANGLE PROJECTION                                                                           |        |             |       |

|                                                                                                                                                                                                                                                                                                                                                                  |       |          |             |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----------|-------------|
| <div> <div> <div>PE</div> <div>PASTERNAK</div> </div> <div>an INFINITE brand</div> </div> <div>           Pasternack Enterprises, Inc.<br/>           P.O. Box 16759, Irvine, CA 92623.<br/>           Phone: 1.949.261.1920   1.866.727.8376<br/>           Fax: 1.949.261.7451<br/>           www.pasternack.com   e-mail: sales@pasternack.com         </div> |       |          |             |
| SIZE                                                                                                                                                                                                                                                                                                                                                             | CAGE  | DRAWN BY | PART NUMBER |
| A                                                                                                                                                                                                                                                                                                                                                                | 53919 | K.DANG   | PE3W02965   |

|                                                                                                                        |     |    |   |
|------------------------------------------------------------------------------------------------------------------------|-----|----|---|
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| SHEET                                                                                                                  | 1   | OF | 1 |
| SCALE                                                                                                                  | N/A |    |   |
| REV                                                                                                                    | A   |    |   |

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