



## 50 Ohm BNC Male to 75 Ohm BNC Female Matching Pad Operating from DC to 2 GHz RoHS Compliant

### Matching Pads Technical Data Sheet

PE7006

#### Features

- DC to 2 GHz Frequency Range
- Low VSWR < 1.2:1
- 1W Max CW Power

#### Applications

- CATV / Cable Networks
- Communication Systems
- Test and Measurement
- Wireless Systems

#### Description

Pasternack's PE7006 is a 50 ohm BNC male to 75 ohm BNC female matching pad that operates from DC to 2 GHz. This BNC to BNC impedance matching pad offers a low VSWR of 1.2:1 max and attenuation accuracy of  $\pm 0.5$  dB. PE7006 50 ohm to 75 ohm minimum loss pad has a maximum CW power rating of 1 Watt.

Matching pads are used to match the different impedance between two devices, maximizing power transfer between the two impedances. Pasternack's minimum loss impedance matching pads are available in various connector combinations to fit your needs, all of which ship the same day.

#### Configuration

Connector 1 50 Ohms BNC Male  
Connector 2 75 Ohms BNC Female

#### Electrical Specifications

| Description      | Minimum | Typical       | Maximum | Units |
|------------------|---------|---------------|---------|-------|
| Frequency Range  | DC      |               | 2       | GHz   |
| VSWR             |         |               | 1.2:1   |       |
| Attenuation      |         | 5.7 $\pm 0.5$ |         | dB    |
| Input Power (CW) |         |               | 1       | Watt  |

#### Electrical Specification Notes:

Impedance Matching Pads are resistive devices and are not designed as DC Pass or DC Block circuits  
Values at +25°C, sea level

#### Mechanical Specifications

Size  
Length 1.8 in [45.72 mm]  
Width 0.59 in [14.99 mm]  
Weight 0.0551 lbs [24.99 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [50 Ohm BNC Male to 75 Ohm BNC Female Matching Pad Operating from DC to 2 GHz RoHS Compliant PE7006](#)



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#### Connectors

| Description                          | Connector 1   | Connector 2   |
|--------------------------------------|---------------|---------------|
| Type                                 | BNC Male      | BNC Female    |
| Impedance                            | 50 Ohms       | 75 Ohms       |
| Inner Conductor Material and Plating | Brass, Gold   | Brass, Gold   |
| Dielectric Type                      | PTFE          | PTFE          |
| Body Material and Plating            | Brass, Nickel | Brass, Nickel |

#### Environmental Specifications

##### Temperature

Operating Range

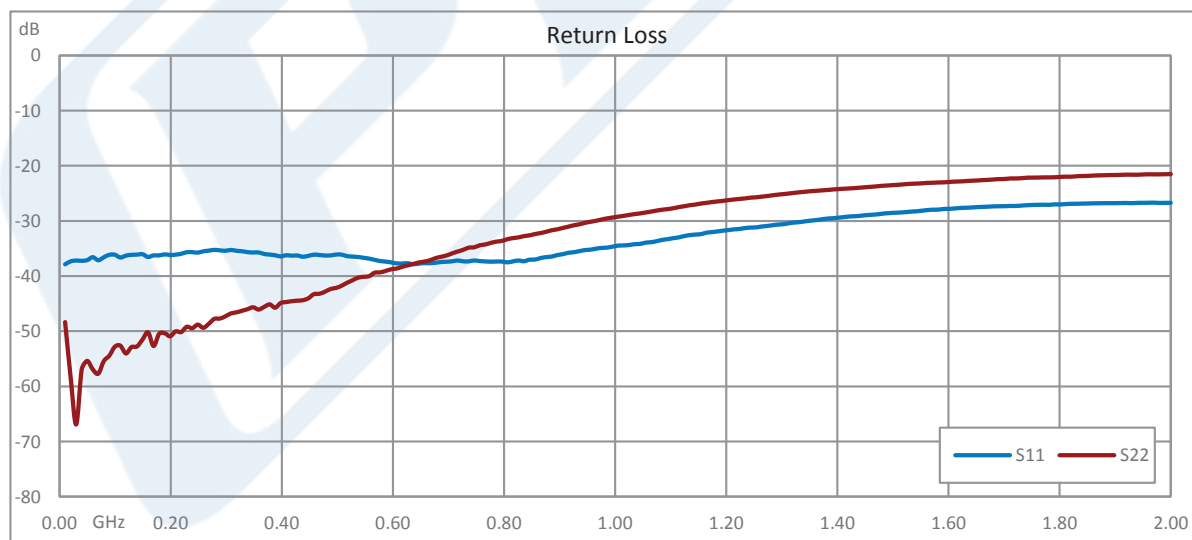
-30 to +70 deg C

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

#### Plotted and Other Data

Notes:

#### Typical Performance Data



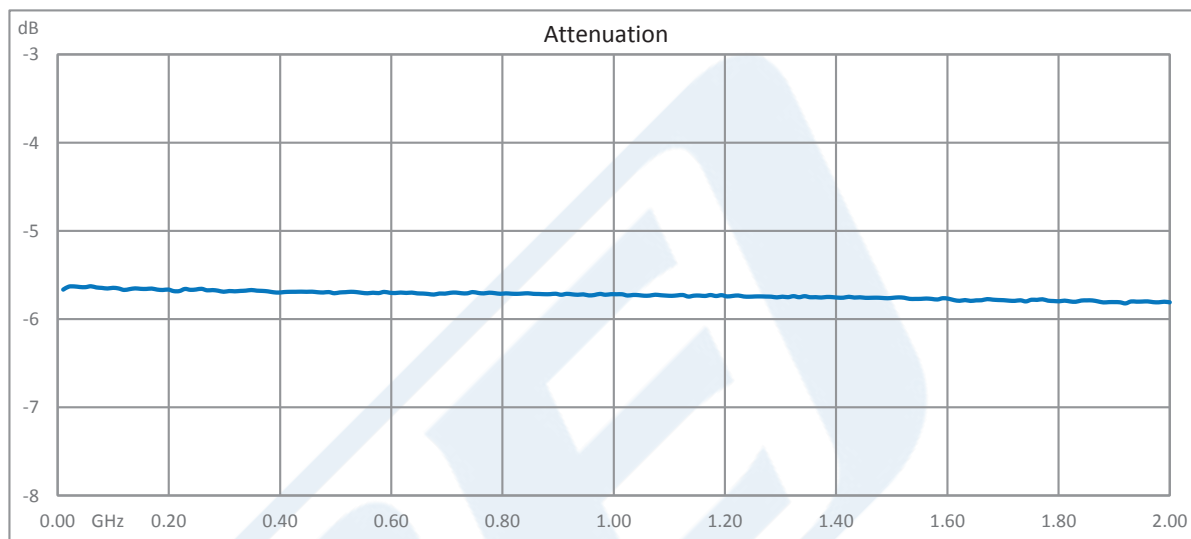
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50 Ohm BNC Male to 75 Ohm BNC Female Matching Pad Operating from DC to 2 GHz RoHS Compliant from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

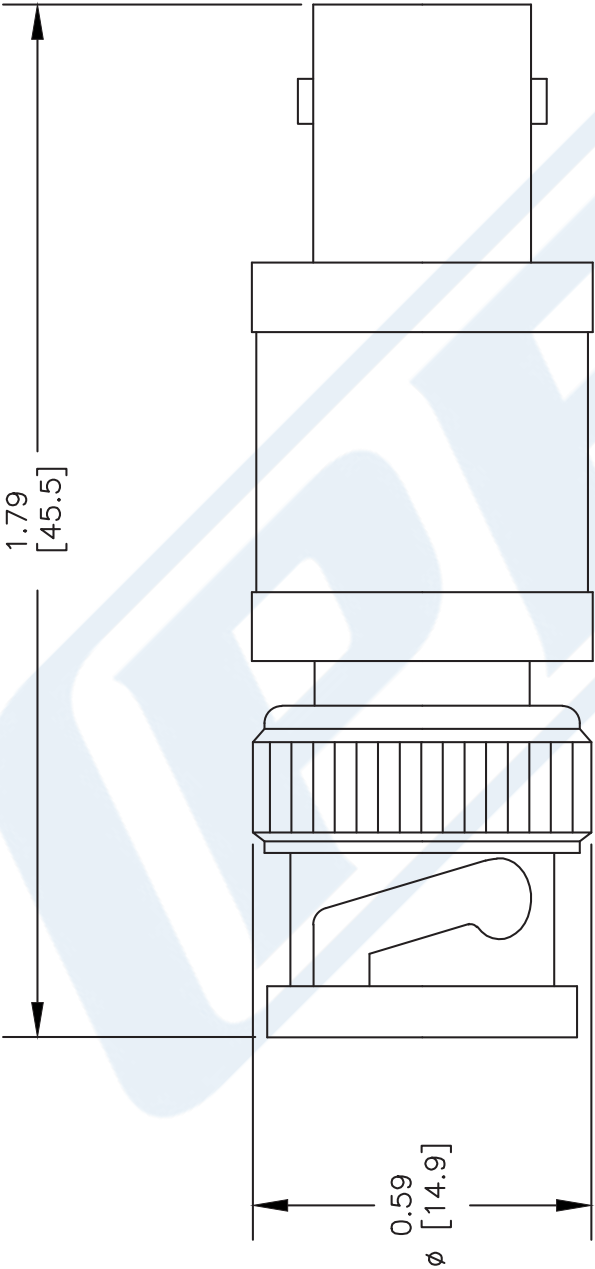
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements.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

PE7006 CAD Drawing

50 Ohm BNC Male to 75 Ohm BNC Female Matching Pad  
Operating from DC to 2 GHz RoHS Compliant



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].

| DWG TITLE |        | FSCM NO. 53919 |  | SCALE N/A |  | SIZE A |  | 127 |  |
|-----------|--------|----------------|--|-----------|--|--------|--|-----|--|
| REV. B    | PE7006 |                |  |           |  |        |  |     |  |

**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