



DC Block on Inner and Outer Conductor 75 Ohm BNC Male  
to BNC Female Operating From 100 MHz to 4 GHz

## DC Blocks Technical Data Sheet

PE8233

### Features

- Inner/Outer DC Block
- Operates from 100 MHz to 4 GHz
- Good Insertion Loss of 0.5 dB Max

### Applications

- Test & Measurement
- Ground Loop Elimination
- Signal to Noise Ratio (SNR) Improvement

### Description

Pasternack's PE8233 is an inner and outer DC block with BNC connectors. It has a blocking capacitor on the inner and outer conductor and operates from 100 MHz to 4 GHz. Our BNC DC block offers good insertion loss of 0.5 dB and has a maximum operating voltage of 200 Vdc. DC blocks are commonly used to filter out unwanted DC signals, while allowing AC drive signals to pass through. They can help improve signal to noise ratio (SNR), eliminate ground loops, or provide isolation in your test setup. All of Pasternack's DC blocks are in stock and available to ship same-day.

### Electrical Specifications

| Description            | Minimum | Typical | Maximum | Units |
|------------------------|---------|---------|---------|-------|
| Frequency Range        | 0.1     |         | 4       | GHz   |
| Impedance              |         | 75      |         | Ohms  |
| VSWR                   |         |         | 1.35:1  |       |
| Insertion Loss         |         |         | 0.5     | dB    |
| Operating Voltage (DC) |         |         | 200     | Volts |

#### Electrical Specification Notes:

75 ohm BNC connectors mate only with other 75 ohm BNC series. Mating with 50 ohm BNC connectors may cause damage.

### Mechanical Specifications

#### Size

|                              |                     |
|------------------------------|---------------------|
| Length                       | 1.6 in [40.64 mm]   |
| Width                        | 0.57 in [14.48 mm]  |
| Weight                       | 0.044 lbs [19.96 g] |
| Housing Material and Plating | Brass, Nickel       |

#### Configuration

|              |                      |
|--------------|----------------------|
| Design       | Inner/Outer DC Block |
| Package Type | Connectorized        |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [DC Block on Inner and Outer Conductor 75 Ohm BNC Male to BNC Female Operating From 100 MHz to 4 GHz PE8233](#)



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| Description                          | Connector 1            | Connector 2            |
|--------------------------------------|------------------------|------------------------|
| Type                                 | BNC Male               | BNC Female             |
| Inner Conductor Material and Plating | Beryllium Copper, Gold | Beryllium Copper, Gold |
| Coupling Nut Material and Plating    | Brass, Nickel          |                        |
| Body Material and Plating            | Brass, Nickel          | Brass, Nickel          |

### Environmental Specifications

#### Temperature

Operating Range

-65 to +125 deg C

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

### Plotted and Other Data

Notes:

DC Block on Inner and Outer Conductor 75 Ohm BNC Male to BNC Female Operating From 100 MHz to 4 GHz 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.

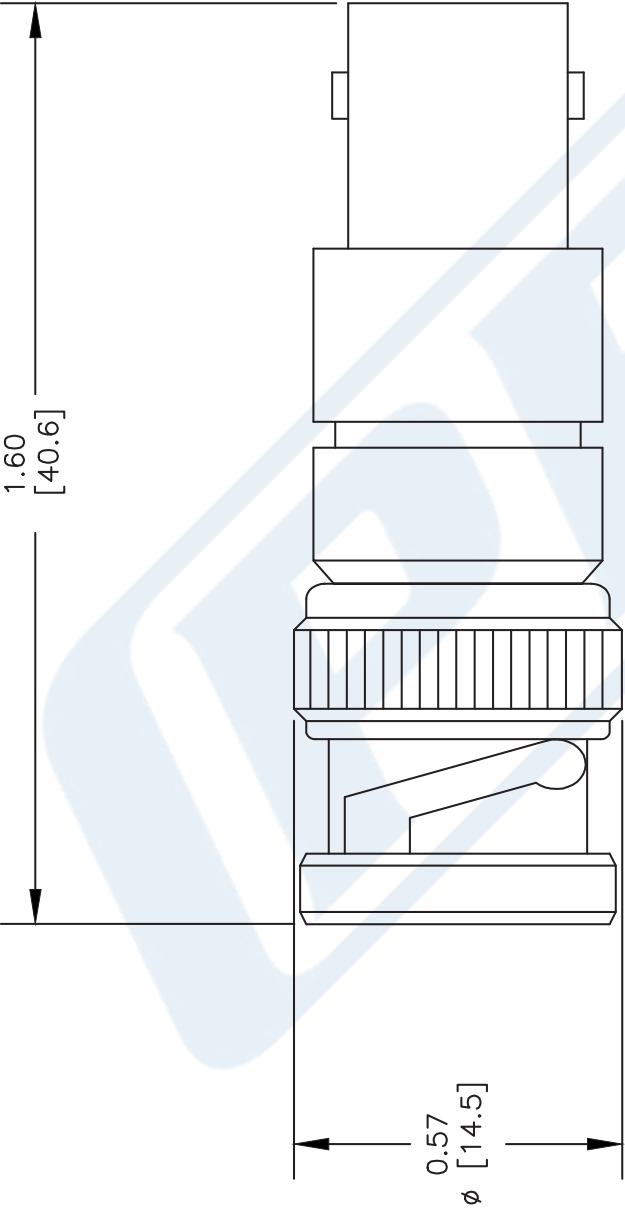
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URL: <https://www.pasternack.com/dc-block-bnc-male-to-bnc-female-100-mhz-4-ghz-pe8233-p.aspx>

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.

PE8233 CAD Drawing

DC Block on Inner and Outer Conductor 75 Ohm BNC Male to  
BNC Female Operating From 100 MHz to 4 GHz



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  
**PE8233**

FSCM NO. 53919

CAD FILE 080802

SCALE N/A

SIZE A

127

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