



DC Block on Inner and Outer Conductor 2.4mm Male to 2.4mm Female Operating From 100 MHz to 50 GHz

## DC Blocks Technical Data Sheet

PE8239

### Features

- Inner/Outer DC Block
- Operates from 100 MHz to 50 GHz
- Good Insertion Loss of 1.5 dB Max

### Applications

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

### Description

Pasternack's PE8239 is an inner and outer DC block with 2.4 mm connectors. It has a blocking capacitor on the inner and outer conductor and operates from 100 MHz to 50 GHz. Our BNC DC block offers good insertion loss of 1.5 dB and has a maximum operating voltage of 75 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		50	GHz
Impedance		50		Ohms
VSWR			1.75:1	
Insertion Loss			1.5	dB
Operating Voltage (DC)			75	Volts

### Mechanical Specifications

#### Size

Length	1.125 in [28.58 mm]
Width	0.5 in [12.7 mm]
Weight	0.016 lbs [7.26 g]
Housing Material and Plating	Plastic

#### 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 2.4mm Male to 2.4mm Female Operating From 100 MHz to 50 GHz PE8239](#)



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Description	Connector 1	Connector 2
Type	2.4mm Male	2.4mm Female
Inner Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material and Plating	Stainless Steel, Gold	
Hex Size	5/16 inch	
Body Material and Plating	Stainless Steel, Gold	Stainless Steel, Gold

### Environmental Specifications

#### Temperature

Operating Range

+5 to +75 deg C

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

### Plotted and Other Data

Notes:

DC Block on Inner and Outer Conductor 2.4mm Male to 2.4mm Female Operating From 100 MHz to 50 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.

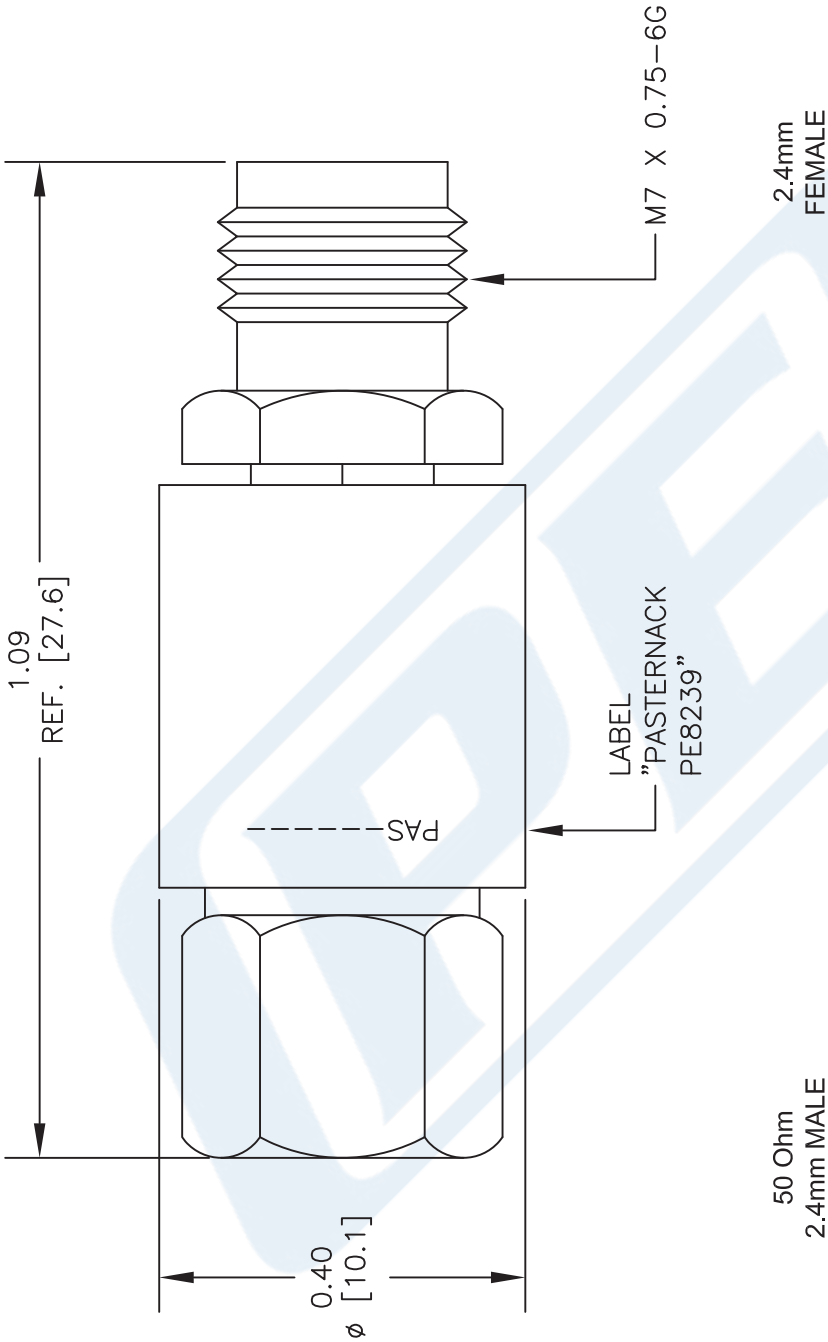
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URL: <https://www.pasternack.com/50-ohm-dc-block-24mm-male-to-24mm-female-mhz-50-ghz-pe8239-p.aspx>

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.

# PE8239 CAD Drawing

DC Block on Inner and Outer Conductor 2.4mm Male to 2.4mm  
Female Operating From 100 MHz to 50 GHz



## STANDARD TOLERANCES

.X ±0.2  
.XX ±0.1  
.XXX ±0.05

\*STANDARD TOLERANCES APPLY  
ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

**PE8239**

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].

FSCM NO. 53919

CAD FILE 070816

SCALE N/A

SIZE A

2233