DC Block on Inner and Outer Conductor SMA Male to
SMA Female Operating From 10 MHz to 18 GHz

DC Blocks Technical Data Sheet   PE8212

Features

- Inner/Outer DC Block
- Operates from 10 MHz to 18 GHz

- Good Insertion Loss of 0.5 dB Max

Applications

- Test & Measurement
- Ground Loop Elimination

- Signal to Noise Ratio (SNR) Improvement

Description

Pasternack's PE8212 is an inner and outer DC block with SMA connectors. It has a blocking capacitor on the inner and outer conductor and operates from 10 MHz to 18 GHz. Our SMA 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	0.01		18	GHz
Impedance		50		Ohms
VSWR			1.35:1	
Insertion Loss			0.5	dB
Operating Voltage (DC)			200	Volts

Mechanical Specifications

Size
Length   1.2 in [30.48 mm]
Width   0.5 in [12.7 mm]

Weight   0.018 lbs [8.16 g]

Housing Material and Plating   Plastic

Configuration
Design   Inner/Outer DC Block
Package Type   Connectorized

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Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Connector Specification	MIL-STD-348	MIL-STD-348
Inner Conductor Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Coupling Nut Material and Plating	Passivated Stainless Steel	
Hex Size	5/16 in.	
Torque	8 in-lbs [0.9 Nm]	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

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 SMA Male to SMA Female Operating From 10 MHz to 18 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.

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 SMA Male to SMA Female Operating From 10 MHz to 18 GHz PE8212

URL: https://www.pasternack.com/50-ohm-sma-inner-outer-dc-block-0.1-18-ghz-pe8212-p.aspx

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PE8212 CAD Drawing

DC Block on Inner and Outer Conductor SMA Male to SMA Female Operating From 10 MHz to 18 GHz

0.50 [12.7]
ø

1/4-36

SMA FEMALE

1.21 [30.6]

LABEL "PASTERNACK PE8212"

PAS

5/16 HEX
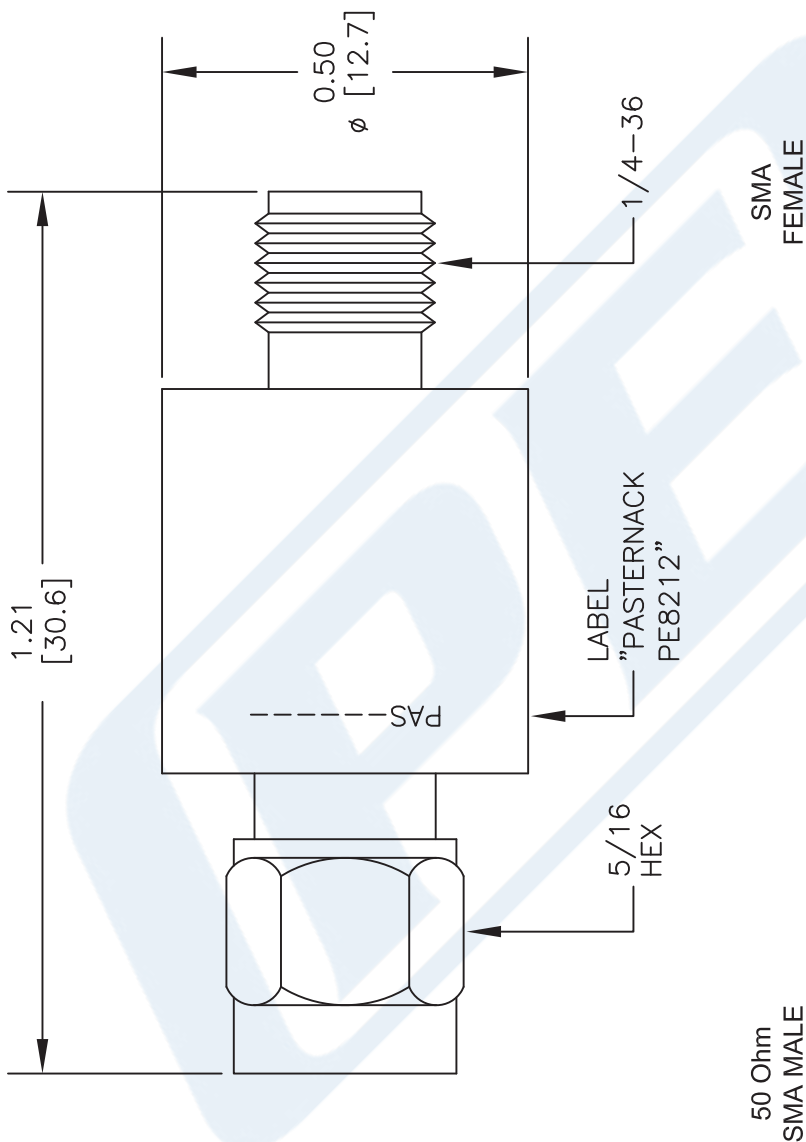
50 Ohm SMA MALE

STANDARD TOLERANCES
.X   ±0.2
.XX   ±0.1
.XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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
PE8212

FSCM NO. 53919

CAD FILE 070716

SCALE N/A

SIZE A

2233