



DC Block on Inner Conductor 50 Ohm 1.0 mm Male to
1.0 mm Female Operating From 50 kHz to 110 GHz

DC Blocks Technical Data Sheet

PE8259

Features

- Inner DC Blocks
- 1.0 mm (W1) connectorized configuration
- 50 kHz to 110 GHz Frequency Range
- Max Power 1 Watt (CW)
- 50 Ohm Impedance
- Typical VSWR of 1.4:1

Applications

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

Description

Pasternack's PE8259 is an inner DC block with 1.0 mm (W1) connectors. It has a blocking capacitor on the inner conductor and operates from 50 kHz to 110 GHz. Our 1.0 mm (W1) DC block offers good insertion loss of 2.5 dB and has a minimum operating voltage of 16 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	50KHz		110	GHz
Impedance		50		Ohms
VSWR		1.4:1		
Insertion Loss			2.5	dB
Operating Voltage (DC)			16	Volts
Group Delay		94		ps
Capacitance		10,000		pF
Input Power (CW)			1	Watt

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.001 to 26	26 to 65	65 to 110			GHz
VSWR, Max	1.4:1	1.9:1	2.3:1			

Mechanical Specifications

Size

Length

1.18 in [29.97 mm]

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 Conductor 50 Ohm 1.0 mm Male to 1.0 mm Female Operating From 50 kHz to 110 GHz PE8259](#)



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Width	0.441 in [11.2 mm]
Height	0.441 in [11.2 mm]
Weight	0.014 lbs [6.35 g]

Configuration

Design	Inner DC Block
Package Type	Connectorized

Description	Connector 1	Connector 2
Type	1.0mm Male	1.0mm Female

Environmental Specifications

Temperature

Operating Range

-55 to 100 deg C

Shock

100g peak sawtooth, method 213, test condition 1

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

Plotted and Other Data

Notes:

DC Block on Inner Conductor 50 Ohm 1.0 mm Male to 1.0 mm Female Operating From 50 kHz to 110 GHz 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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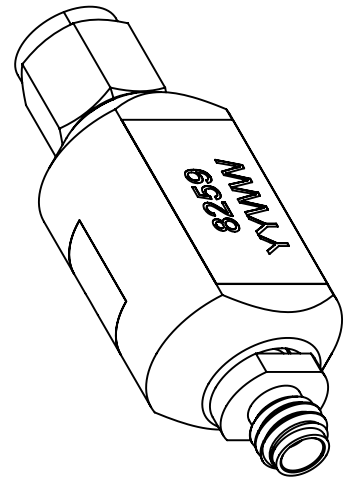
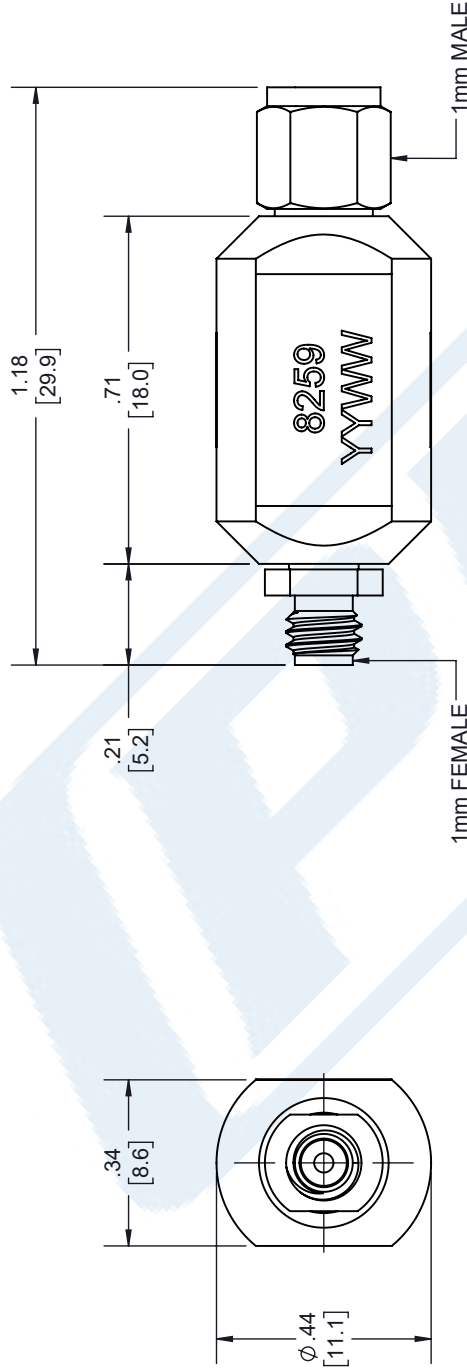
URL: <https://www.pasternack.com/50-ohm-1.0mm-inner-dc-block-0.05-mhz-110-ghz-pe8259-p.aspx>

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PE8259 CAD Drawing

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Female Operating From 50 kHz to 110 GHz

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	8/8/2022	S. PONG



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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES: X = ± .2 [5.08] .XX = ± .02 [.51] .XXX = ± .005 [.13] FRACTIONS ± 1/32 ANGLES ± 1° CABLE LENGTH (L) TOLERANCES: L ≤ 12 [305] = +1 [25] / -0 12 [305] < L ≤ 60 [1524] = +2 [51] / -0 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0 300 [7620] < L = +5% / -0	SIZE A	ITEM NO. 53919
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