

## Inner and Outer DC Block, 50 Ohm, 100 MHz to 4 GHz with BNC Male to BNC Female Connectors



### SD8218A

#### Features

- Inner/Outer DC Blocks
- BNC Connectorized Configuration
- 100 MHz to 4 GHz Frequency Range
- 50 Ohm Impedance
- Max VSWR of 1.35:1

#### Applications

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

#### Description

Fairview Microwave's SD8218A 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 Fairview Microwave's DC blocks are in stock and available to ship same-day.

#### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.1		4	GHz
Impedance		50		Ohms
VSWR			1.35:1	
Insertion Loss			0.5	dB
Operating Voltage (DC)			200	Volts

#### Mechanical Specifications

##### Size

Length	2.09 in [53.09 mm]
Width	0.57 in [14.48 mm]
Height	0.57 in [14.48 mm]
Weight	0.04 lbs [18.14 g]
Housing Material and Plating	Brass, Copper-Tin-Zinc Alloy

##### Configuration

Design	Inner/Outer DC Block
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Description	Connector 1	Connector 2
Type	BNC Male	BNC Female
Inner Cond Material & Plating	Beryllium Copper, Gold over Nickel over Copper	Beryllium Copper, Gold over Nickel over Copper
Dielectric Type	Teflon	Teflon
Body Material & Plating	Brass, Copper-Tin-Zinc Alloy	Brass, Copper-Tin-Zinc Alloy

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### Environmental Specifications

Temperature

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

### Plotted and Other Data

Notes:

### Typical Performance Data

Inner and Outer DC Block, 50 Ohm, 100 MHz to 4 GHz with BNC Male to BNC Female Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Inner and Outer DC Block, 50 Ohm, 100 MHz to 4 GHz with BNC Male to BNC Female Connectors SD8218A](#)

URL: <https://www.fairviewmicrowave.com/inner-and-outer-dc-block-100-mhz-4-ghz-bnc-connectors-sd8218a-p.aspx>

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SD8218A CAD Drawing

Inner and Outer DC Block, 50 Ohm, 100 MHz to 4 GHz with BNC Male to BNC Female Connectors

