

**Inner DC Block From 0.007 MHz to 23 GHz With SMA Connectors**

Fairview Microwave's SD3235 is an inner DC block with SMA connectors. It has a blocking capacitor on the inner conductor and operates from 7 kHz to 23 GHz. Our SMA DC block offers good insertion loss of 1 dB and has a maximum operating voltage of 100 Vdc. Inner 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.



**Features:**

- Inner DC Block
- Operates from 7 kHz to 23 GHz
- Good Insertion Loss of 1 dB Max

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	7KHz		23	GHz
Impedance		50		Ohms
VSWR			1.4:1	
Insertion Loss			1	dB
Operating Voltage (DC)			100	Volts
Input Power (CW) derates linearly to 0.2W at +125°C			2	Watts

Electrical Specification Notes:  
 Better than -3 dB bandwidth 7kHz -23 GHz

**Applications:**

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

**Mechanical Specifications**

<b>Size</b>	
Length	0.87 in [22.1 mm]
Width	0.312 in [7.92 mm]
Weight	0.0155 lbs [7.03 g]
Housing Material and Plating	Passivated Stainless Steel

**Configuration**

Design	Inner DC Block
Package Type	Connectorized

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Connector Specification	MIL-STD-348	MIL-STD-348
Inner Cond Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material & Plating	Passivated Stainless Steel	
Hex Size	5/16 inch	
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

**Environmental Specifications**

**Temperature**

Operating Range	-65 to +125 deg C
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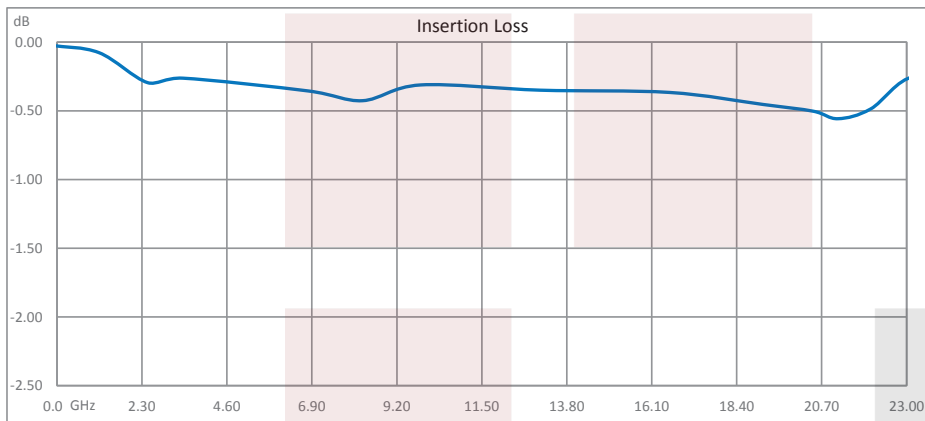
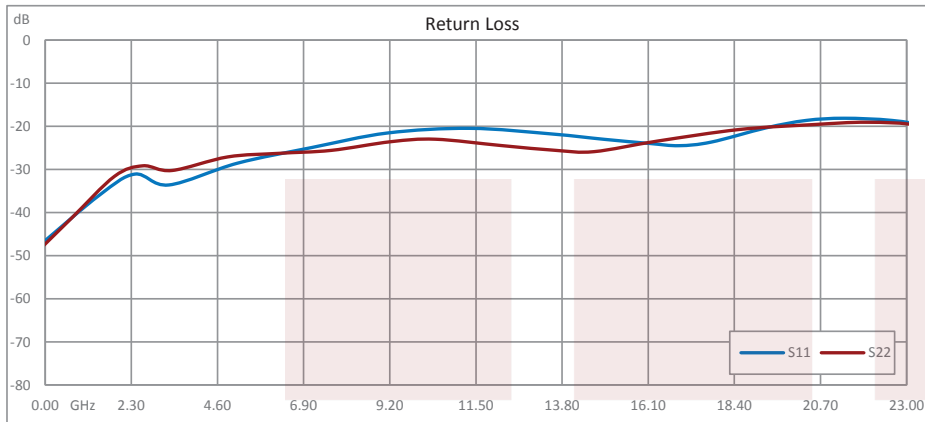
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**

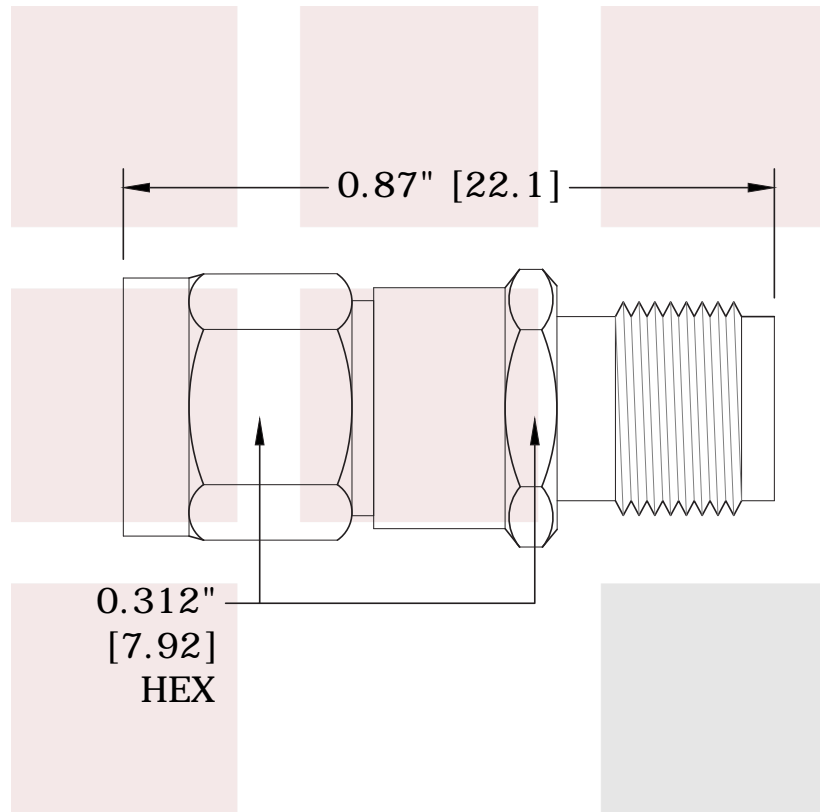


Inner DC Block From 0.007 MHz to 23 GHz With SMA Connectors from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Inner DC Block From 0.007 MHz to 23 GHz With SMA Connectors SD3235](#)

URL: <https://www.fairviewmicrowave.com/inner-dc-block-0.005-mhz-23-ghz-sma-connectors-sd3235-p.aspx>

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TITLE Inner DC Block From 0.007 MHz to 23 GHz With SMA Connectors		DWG NO <b>SD3235</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	110915	SHEET	SCALE	N/A	SIZE A 5568