

Inner-Outer DC Block From 10 MHz to 18 GHz With N Connectors

Fairview Microwave's SD3082 is an inner and outer DC block with type N connectors. It has a blocking capacitor on the inner and outer conductor and operates from 10 MHz to 18 GHz. Our type N DC block offers good insertion loss of 1.5 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.



Features:

- Inner-Outer DC Block
- Operates from 10 MHz to 18 GHz
- Good Insertion Loss of 1.5 dB Typ

Applications:

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

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.01		18	GHz
Impedance		50		Ohms
VSWR			1.45:1	
Insertion Loss		1.5		dB
Operating Voltage (DC)			200	Volts

Mechanical Specifications

Size	
Length	2.1 in [53.34 mm]
Width	0.825 in [20.96 mm]
Height	0.825 in [20.96 mm]
Weight	0.1255 lbs [56.93 g]
Housing Material and Plating	Plastic

Configuration

Design	Inner-Outer DC Block
Package Type	Connectorized

Description	Connector 1	Connector 2
Type	N Male	N Female
Inner Cond Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Plastic	Plastic
Coupling Nut Material & Plating	Passivated Stainless Steel	
Torque	13.5 in-lbs [1.53 Nm]	
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

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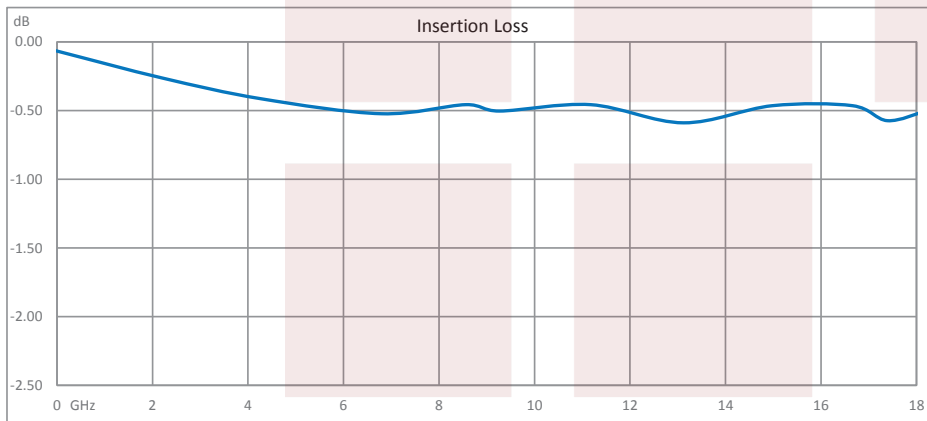
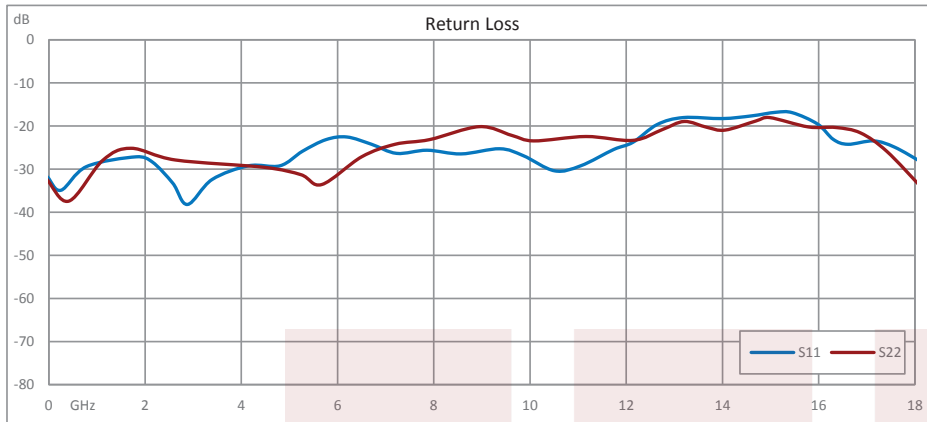
Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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Typical Performance Data

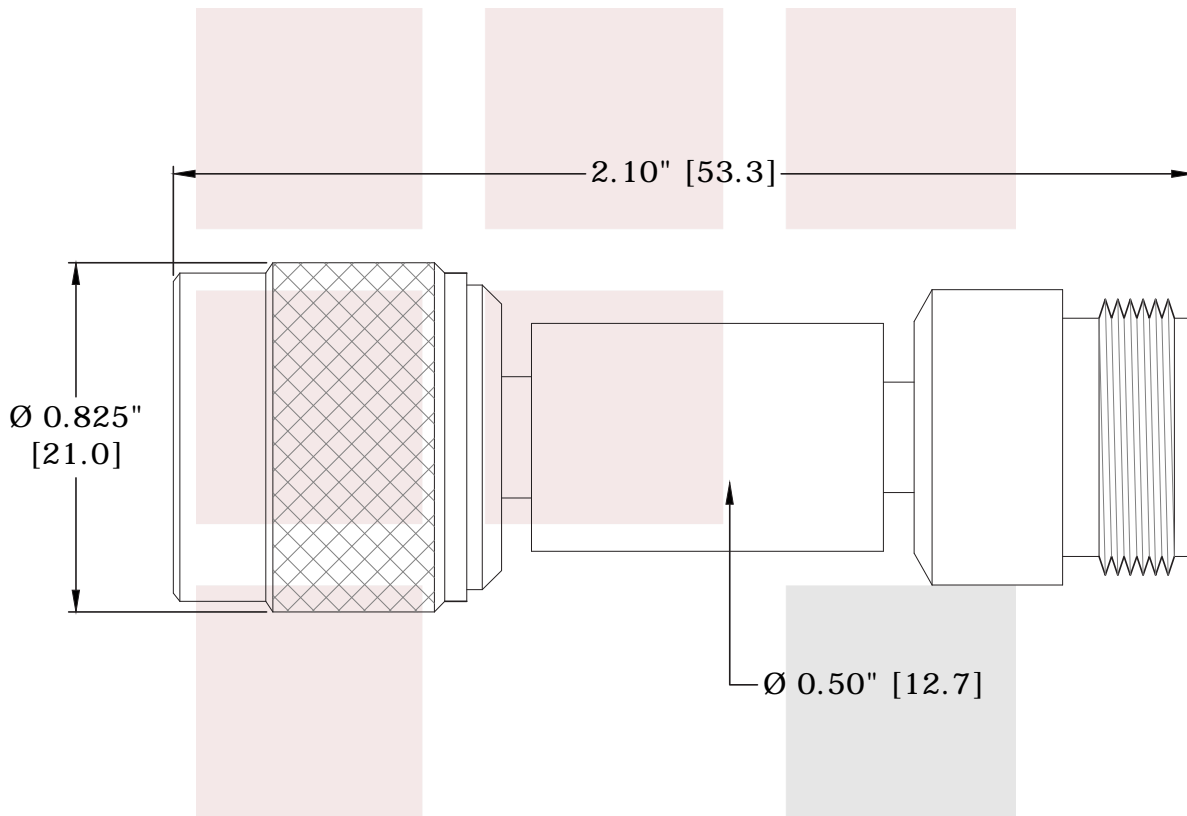


Inner-Outer DC Block From 10 MHz to 18 GHz With N Connectors from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Inner-Outer DC Block From 10 MHz to 18 GHz With N Connectors SD3082](https://www.fairviewmicrowave.com/inner-outer-dc-block-10-mhz-18-ghz-n-connectors-sd3082-p.aspx)

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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. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



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TITLE Inner-Outer DC Block From 10 MHz to 18 GHz With N Connectors		DWG NO SD3082		CAGE CODE 3FKR5		
CAD FILE	011415	SHEET	SCALE	N/A	SIZE	A 5568