

Inner DC Block From 10 MHz to 18 GHz With SMA Connectors

Fairview Microwave's SD3241 is an inner DC block with SMA connectors. It has a blocking capacitor on the inner conductor and operates from 10 MHz to 18 GHz. Our SMA DC block offers good insertion loss of 1 dB and has a maximum operating voltage of 50Vdc. 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	0.01		18	GHz
Impedance		50		Ohms
VSWR			1.35:1	
Insertion Loss			1	dB
Operating Voltage (DC)			50	Volts

Mechanical Specifications

Size	
Length	0.87 in [22.1 mm]
Width	0.312 in [7.92 mm]
Weight	0.0125 lbs [5.67 g]
Housing Material and Plating	Brass, Tri-Metal

Configuration	
Design	Inner DC Block
Package Type	Connectorized

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Inner Cond Material & Plating	Brass, Gold	Beryllium Copper, Gold
Dielectric Type	PTFE	PTFE
Coupling Nut Material & Plating	Brass, Tri-Metal	
Hex Size	8 mm	
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature	
Operating Range	-40 to +120 deg C
Humidity	10-90% relative humidity non condensing

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

Plotted and Other Data

Notes:

Features:

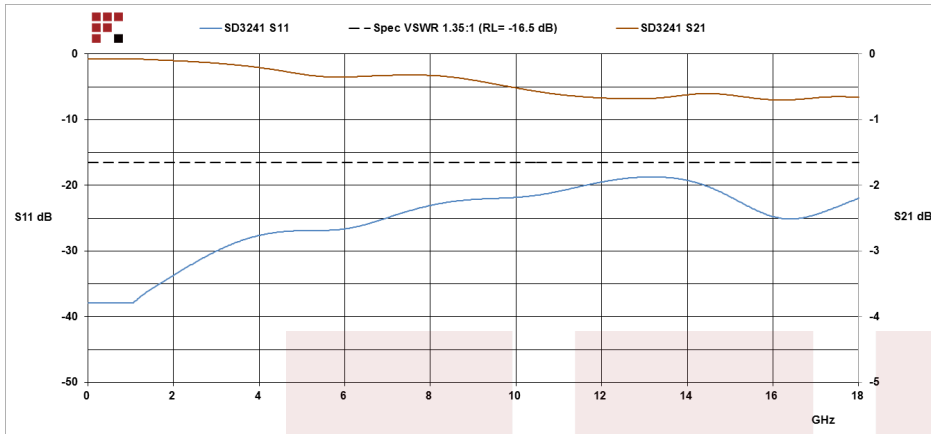
- Inner DC Block
- Operates from 10MHz to 18GHz
- Good Insertion Loss of 1 dB Max

Applications:

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

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Typical Performance Data

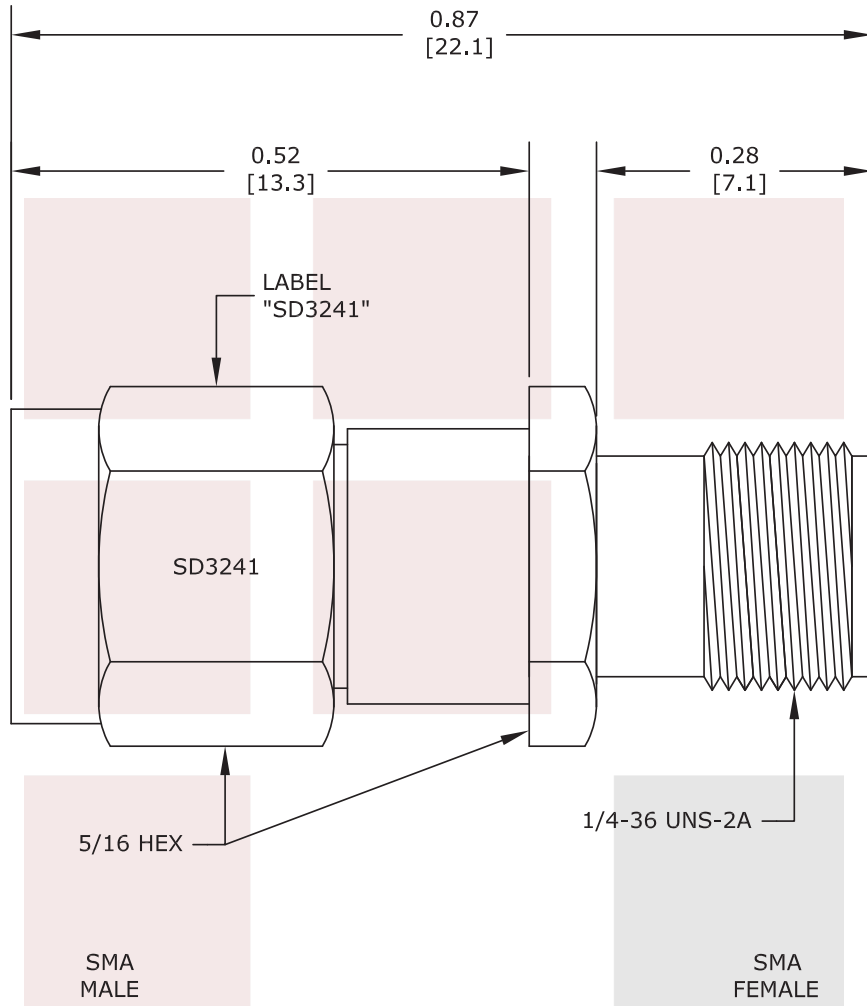


Inner DC Block From 10 MHz to 18 GHz With SMA Connectors from Fairview Microwave has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link to obtain additional part information: [Inner DC Block From 10 MHz to 18 GHz With SMA Connectors SD3241](#)

URL: <https://www.fairviewmicrowave.com/inner-dc-block-5-mhz-18-ghz-sma-connectors-sd3241-p.aspx>

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.



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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		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].			
TITLE Inner DC Block From 10 MHz to 18 GHz With SMA Connectors		DWG NO SD3241		CAGE CODE 3FKR5	
CAD FILE	101916	SHEET	SCALE	N/A	SIZE A 41742