

## 50 ohm N plug to N jack DC Block inner from 10MHz to 5GHz rated 100 Volt in Brass

Fairview Microwave SD8271 is an inner DC block with N-Type connectors. It has a blocking capacitor on the inner conductor and operates from 10 MHz to 5 GHz. Our N-Type DC block offers good insertion loss of 0.5 dB and has a maximum operating voltage of 100 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 DC blocks are in stock and available to ship same-day.

### Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	0.01		5	GHz
Impedance		50		Ohms
VSWR			1.32:1	
Insertion Loss			0.5	dB
Operating Voltage (DC)			100	Volts

### Mechanical Specifications

<b>Size</b>	
Length	2.09 in [53.09 mm]
Width	0.827 in [21.01 mm]
Height	0.827 in [21.01 mm]
Weight	0.1 lbs [45.36 g]
Housing Material and Plating	Brass, Tri-Metal

### Configuration

Package Type	Connectorized
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Description	Connector 1	Connector 2
Type	N Male	N Female
Inner Cond Material & Plating	Brass, Gold	Beryllium Copper, Gold

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

### Plotted and Other Data

Notes:



### Features:

- Inner DC Blocks with Brass Body
- N-Type connectorized configuration
- Operates from 10 MHz to 5 GHz
- 50 Ohm Impedance

### Applications:

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

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50 ohm N plug to N jack DC Block inner from 10MHz to 5GHz rated 100 Volt in Brass 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.

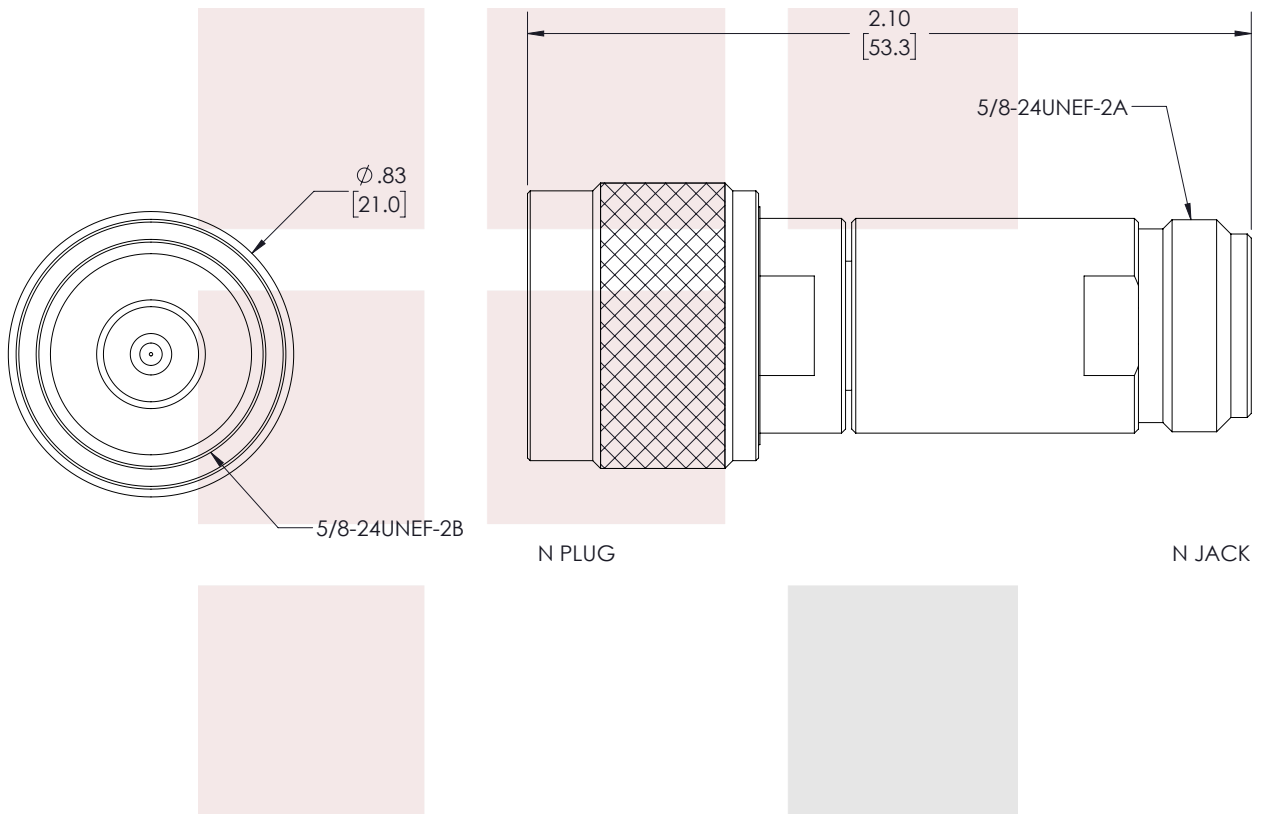
Click the following link to obtain additional part information: [50 ohm N plug to N jack DC Block inner from 10MHz to 5GHz rated 100 Volt in Brass SD8271](#)

URL: <https://www.fairviewmicrowave.com/dc-block-10-mhz-5-ghz-n-connectors-sd8271-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.



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/25/22	JNAJERA



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TITLE  
50 ohm N plug to N jack DC Block inner from 10MHz to 5GHz rated 100 Volt in Brass

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

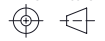
TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32  
.XX = ±.02 [.51] ANGLES ± 1°  
.XXX = ±.005 [.13]

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%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY HBAKKE	ITEM NO. SD8271	REV A
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