

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

Fairview Microwave's SD3074 is an inner DC block with type N connectors. It has a blocking capacitor on the inner conductor and operates from 10 MHz to 18 GHz. Our type N DC block offers good insertion loss of 1 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 | 0.01 | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | 1.35:1 | | |
| Insertion Loss | | | 1 | dB |
| Operating Voltage (DC) | | | 200 | Volts |
| Input Power (CW) | | | 2 | Watts |

Mechanical Specifications

Size

| | |
|------------------------------|----------------------------|
| Length | 1.76 in [44.7 mm] |
| Weight | 0.1383 lbs [62.73 g] |
| Housing Material and Plating | Passivated Stainless Steel |

Configuration

| | |
|--------------|----------------|
| Design | Inner DC Block |
| Package Type | Connectorized |

| Description | Connector 1 | Connector 2 |
|---------------------------------|----------------------------|----------------------------|
| Type | N Male | N 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 | |
| Body Material & Plating | Passivated Stainless Steel | Passivated Stainless Steel |

Environmental Specifications

Temperature

| | |
|-----------------|-------------------|
| Operating Range | -65 to +125 deg C |
|-----------------|-------------------|

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

Plotted and Other Data

Notes:



Features:

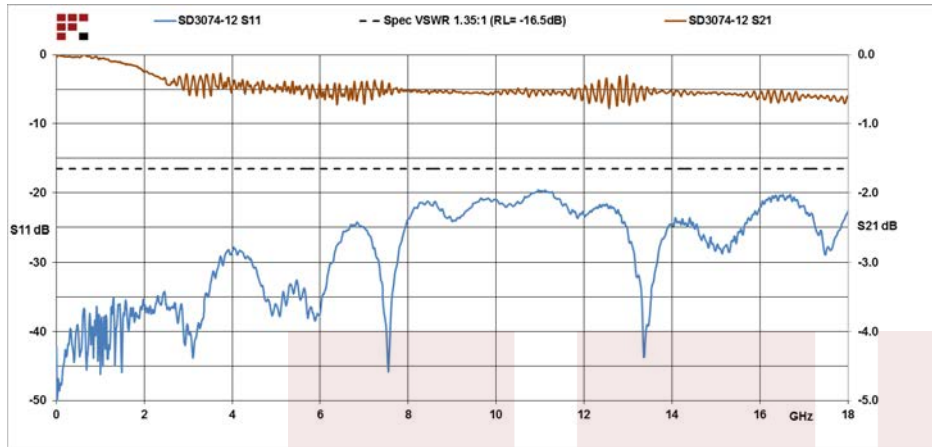
- Inner DC Block
- Operates from 10 MHz to 18 GHz
- Good Insertion Loss of 1 dB Max

Applications:

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

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Typical Performance Data



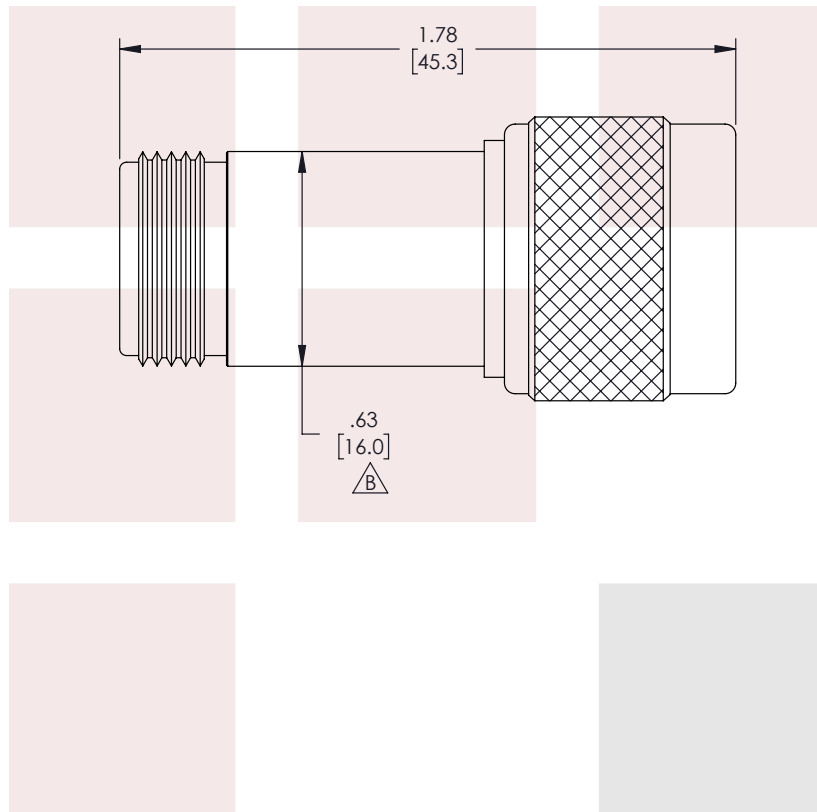
Inner DC Block From 10 MHz to 18 GHz With N Connectors from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

Click the following link to obtain additional part information: [Inner DC Block From 10 MHz to 18 GHz With N Connectors SD3074](https://www.fairviewmicrowave.com/inner-dc-block-10-mhz-18-ghz-n-connectors-sd3074-p.aspx)

URL: <https://www.fairviewmicrowave.com/inner-dc-block-10-mhz-18-ghz-n-connectors-sd3074-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 |
| B | MOVED DIM TO CORRECT LOCATION, WAS Ø.62 | 10/05/2021 | SPONG |



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TITLE

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

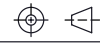
TOLERANCES:

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

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 DZINN | ITEM NO. SD3074 | REV B |
|------------------|---------------------------|--------------------------|---------------------------|-----------------|

T-Rev.D