

RF DC Block Protector, 2.00 – 6.00 GHz, Type N F-F, 10W, IP67

DCB-WFI-NFF



• DCB-WFI-NFF

N Female Connectors on Surge and Protected Side

The DCB series surge arrester is a RF broadband device designed for surge and lightning protection applications where DC Block is required. A DC Blocking device with its internal series capacitor circuit. This DCB unit offers excellent surge / lightning suppression for telecommunications systems.

The DCB series demonstrates excellent RF characteristics while offering outstanding surge protection.

FEATURES:

- Broad Band Design
- Excellent Insertion Loss and Return Loss Characteristics Over Frequency Range
- DC Block
- Multi-Strike Capability
- Max Surge Current of 20kA
- Max Power 10W
- RoHS & CE Compliant
- Bulkhead Mounting (Hex Nut, Lock Washer and O-Ring Included)
- IP67 Rated

APPLICATIONS:

- Wi-Fi
- 4G/5G Cellular Systems
- Other Wireless Applications that Require DC Block to Equipment

RF Specifications

| | |
|--|---------------------|
| Impedance | 50 Ω |
| Frequency | 2.00 – 6.00 GHz |
| VSWR/Return Loss (Over Frequency) | ≤1.25 Max / 19.1 dB |
| Insertion Loss (Over Frequency) | ≤0.2dB Max. |
| Maximum RF Power | 10 Watts |

Transient Specifications

| | |
|----------------------------|-----------------------------------|
| Protection Circuit | DC Block |
| Surge Current | IEC 61000-4-5 8/20μs Waveform |
| Maximum Surge | 20 kA (1x) |
| Multi-Strike | 10 kA Multiple (10x) |
| Let-Through Energy | ≤10μJ ±20% @ 20kA 8/20μs Waveform |
| Let-Through Voltage | ≤10VDC ±20% @20kA 8/20μs Waveform |

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Mechanical / Environmental Specifications

| | |
|-----------------------------------|------------------|
| Storage / Operational Temp | -50°C to +85°C |
| Ingress Protection | IP67 IEC 60529 |
| Bellcore | TA-NWT-000487 |
| Weight | 5.2 oz (147.4 g) |
| RoHS Compliant | Yes |
| CE | Yes |

Material & Finish Specifications

| Component | Material | Finish |
|----------------------------------|---------------|--------------|
| Outer Parts | Aluminum | Ball Burnish |
| Connectors | Brass | Tri-Metal |
| Coupling Nut & Washer | SST | --- |
| Center Contact | Be Cu / Brass | Gold |
| Insulator | PTFE | --- |

Mechanical Outlines

