

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

### DCB-WFI-NFM



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N Female Connector on Surge and N Male Connector 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

<b>Impedance</b>	50 $\Omega$
<b>Frequency</b>	2.00 – 6.00 GHz
<b>VSWR/Return Loss (Over Frequency)</b>	$\leq 1.25$ Max / 19.1 dB
<b>Insertion Loss (Over Frequency)</b>	$\leq 0.2$ dB Max.
<b>Maximum RF Power</b>	10 Watts

#### Transient Specifications

<b>Protection Circuit</b>	DC Block
<b>Surge Current</b>	IEC 61000-4-5 8/20 $\mu$ s Waveform
<b>Maximum Surge</b>	20 kA (1x)
<b>Multi-Strike</b>	10 kA Multiple (10x)
<b>Let-Through Energy</b>	$\leq 10$ $\mu$ J $\pm 20\%$ @ 20kA 8/20 $\mu$ s Waveform
<b>Let-Through Voltage</b>	$\leq 10$ VDC $\pm 20\%$ @20kA 8/20 $\mu$ s Waveform

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### Mechanical / Environmental Specifications

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

### Material & Finish Specifications

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

### Mechanical Outlines

