

## RF DC Block Protector, 698-2700 MHz, Type N F-M

### DCB-COM-NFM



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N Female Connector on Surge and N Male 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

#### FEATURES:

- Broad Band Design
- Excellent Insertion Loss and Return Loss Characteristics Over Frequency Range
- DC Block
- Multi-Strike Capability
- Surge Current of 40kA
- Max Power 750W RMS
- RoHS & CE Compliant
- Bulkhead Mounting
- IP67 Rated

#### APPLICATIONS:

- Public Safety Systems
- 4G/5G Cellular Systems
- Emergency Response Systems
- Other Wireless Applications that Require DC Block to Equipment



#### RF Specifications

<b>Impedance</b>	50 Ω
<b>Frequency</b>	698 – 2700 MHz
<b>VSWR/Return Loss (Over Frequency)</b>	≤1.15:1 Max / 23.1 dB
<b>Insertion Loss (Over Frequency)</b>	≤0.2dB to ≤2700 MHz
<b>Maximum RF Power</b>	750W RMS Average

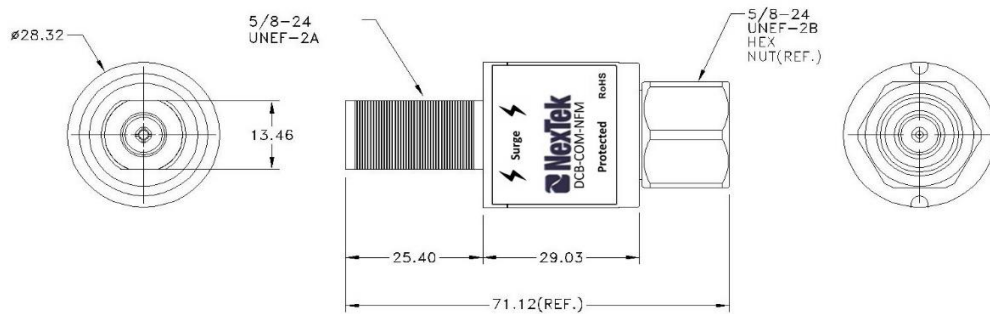
#### Transient Specifications

<b>Protection Circuit</b>	DC Block
<b>Surge Current</b>	IEC 61000-4-5 8/20μs Waveform
<b>Maximum Surge</b>	50 kA (1x)
<b>Multi-Strike</b>	20 kA Multiple (10x)
<b>Let-Through Energy</b>	≤10μJ ±20% @ 20kA 8/20μs Waveform
<b>Let-Through Voltage</b>	≤10VDC ±20% @20kA 8/20μs Waveform

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Mechanical / Environmental Specifications		Material & Finish Specifications		
<b>Storage / Operational Temp</b>	-50°C to +85°C	<b>Component</b>	<b>Material</b>	<b>Finish</b>
<b>Ingress Protection</b>	IP67 IEC 60529	<b>Outer Parts</b>	Aluminum	Ball Burnish
<b>Bellcore</b>	TA-NWT-000487	<b>Connectors</b>	Brass	Tri-Metal
<b>Weight</b>	5.2 oz (147.4 g)	<b>Coupling Nut &amp; Washer</b>	SST	---
<b>RoHS Compliant</b>	Yes	<b>Center Contact</b>	Be Cu / Brass	Gold
<b>CE</b>	Yes	<b>Insulator</b>	PTFE	---

### Mechanical Outlines



#### Hardware Kit Included

Item	Description	Qty
1	5/8"-24 HEX NUT	1
2	5/8" INTERNAL LOCK WASHER	1
3	'O'-RING 019 SILICONE	1