

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

DCB-COM-NFF



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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
- 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

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

Transient Specifications

Protection Circuit	DC Block
Surge Current	IEC 61000-4-5 8/20 μ s Waveform
Maximum Surge	50 kA (1x)
Multi-Strike	20 kA Multiple (10x)
Let-Through Energy	$\leq 10\mu$ J $\pm 20\%$ @ 20kA 8/20 μ s Waveform
Let-Through Voltage	≤ 10 VDC $\pm 20\%$ @20kA 8/20 μ s Waveform

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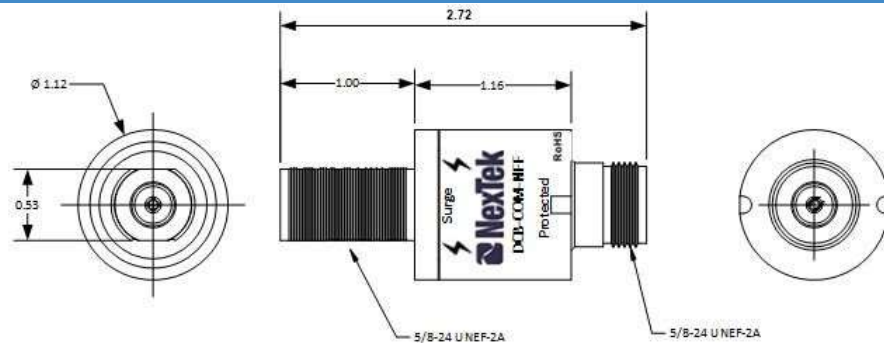
Mechanical / Environmental Specifications

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



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
4	SCREW CAP M8 X 1.25 X 10mm	1
5	5/16" EXT TOOTH LOCK WASHER 18-8 SS	1