

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

DCB-COM-NMF



• DCB-COM-NFM

N Male Connector on Surge and N Female 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

| | |
|--|----------------------------------|
| 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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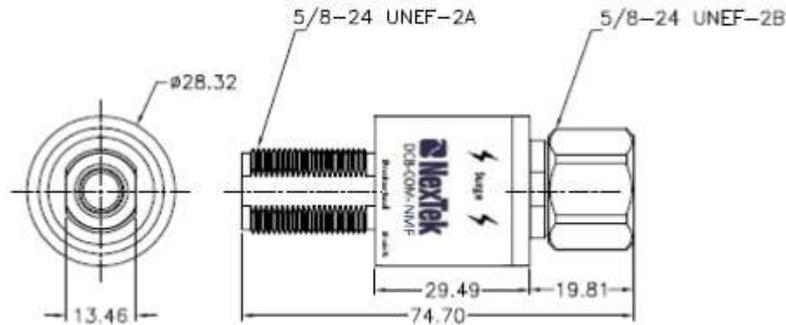
Mechanical / Environmental Specifications

| | |
|-----------------------------------|------------------|
| 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 |