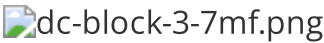




DC-BLOCK-3-7MF-02
DC Block



This DC Block is used to prevent the flow of direct current and low frequency current surges along the inner and outer conductors of a transmission line, while permitting the unimpeded flow of RF signals. Applications include the blocking of current surges in subway tunnels and at antenna sites during lightening storms. The unit consists of a length of coaxial line with a series capacitor in both the center conductor and outer conductor to block the flow of low frequencies, while passing RF with negligible loss or reflections.

Features / Benefits

- Multi-Band Frequency Range
- 250 W Avg. Power Rating
- 3 kV High Voltage Rating
- Minimal RF Insertion Loss
- Very Low Passive IM
- RoHS Compliant
- High Reliability
- 7-16 male/female connector

Technical Features

STRUCTURE

Product Type	DC Block
Input Connector Type	7-16 male
Output Connector Type	7-16 female

MECHANICAL SPECIFICATIONS

Diameter	25.4mm (1in)
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ELECTRICAL SPECIFICATIONS

Impedance	50 Ω
Frequency Range	380 - 2700 MHz
Return Loss (Max VSWR)	15.5 dB (1.4) @ 380 - 520 MHz 21 dB (1.2) @ 520 - 2200 MHz 16.5 dB (1.35) @ 2200 - 2500 MHz 15.5 dB (1.4) @ 2500 - 2700 MHz
Insertion Loss	0.14 dB @ 380 - 520 MHz 0.12 dB @ 520 - 1700 MHz 0.2 dB @ 1700 - 2700 MHz
Intermodulation (IM3)	150 dBc with 2x43 dBm tones
Avg. RF Power	250 w
Max. RF Power	10,000 w
Max. DC Blocking Voltage	3 kV

TEMPERATURE SPECIFICATIONS

Temperature Range	-35°C to 75°C (-31°F to 167°F)
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