RADIO FREQUENCY SYSTEMS
The Clear Choice®

DC Block

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

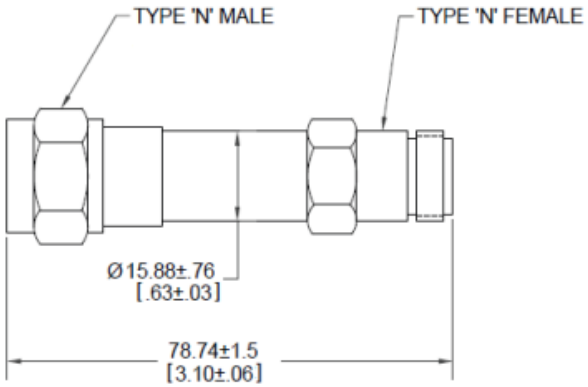
FEATURES / BENEFITS

- Multi-Band Coverage
- 500 W Avg. Power Rating
- 3 kV High Voltage Rating
- Minimal RF Insertion Loss
- Very Low Passive IM
- RoHSCompliant
- High Reliability
- N male/female connector

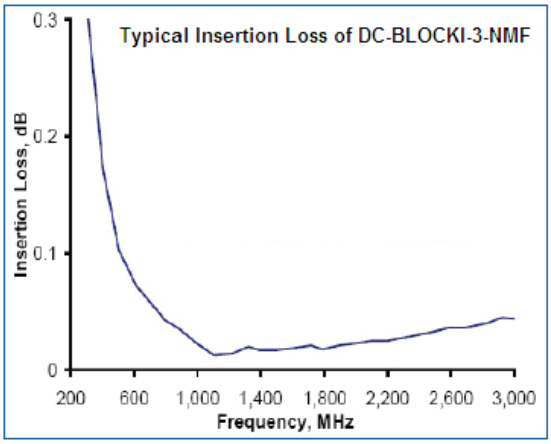
Technical Features

GENERAL SPECIFICATIONS		
Product Type		DC Block
Techn. Application		Outdoor
Number of Input Ports		1
Number of Output Ports		1
ELECTRICAL SPECIFICATIONS		
Frequency Range	MHz	380 - 2700
Impedance	Ohm	50
Insertion Loss max.	dB	0.12 @380 - 800 MHz 0.08 @800 - 2700 MHz
Max. VSWR / Return Loss	VSWR/dB	1.30/17.7 @380 - 800 MHz 1.20/20.8 @800 - 2700 MHz
Intermodulation (IM3)		150 dBc with 2x43 dBm tones
Avg. RF Power	W	500
Max. RF Power	W	10000
Max. DC Blocking Voltage	kV	3
MECHANICAL SPECIFICATIONS		
Connectors		N
Input Connector Type		N male
Output Connector Type		N female
Diameter	mm (in)	15.9 (0.63)
Weight	kg (lb)	0.65 (1.43)
TEMPERATURE SPECIFICATIONS		
Temperature Range	°C (°F)	-35 to 75(-31 to 167)
TESTING AND ENVIRONMENTAL		
Environmental Class		IP 65

DC Block



DC-BLOCKI-3-NMF1 sketch.png



DC-BLOCKI-3-NMF1 typ insertion loss.png

External Document Links

Notes