

**DC-BLOCK-3-43MF-1**

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. 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.

Feature / Benefits

- Broadband frequency range from 80 to 3800MHz
- 3 kV High voltage rating
- Inner and Outer conductor separated
- PIM optimized design to minimize network interferences
- Minimal RF insertion loss
- 4.3-10 male/female connector

Technical features**GENERAL SPECIFICATIONS**

Product Type	DC Block
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ELECTRICAL SPECIFICATIONS

Frequency Range	80 - 3800		
Impedance	50 Ohm		
Value of insertion loss	Lower Frequency		Upper Frequency
0.25	80		3800
VSWRMAX	ReturnLossDB	LowerFrequency	UpperFrequency
1.4	15.5	80	100
1.3	17.7	100	300
1.1	26.4	300	1880
1.2	20.8	1880	2700
1.25	19	2700	3800
Intermodulation (IM3)	160dBc, typ -165dBc (2x20W)		
Max. DC Blocking Voltage	3 kV		

MECHANICAL SPECIFICATIONS

Input Connector Type	4.3-10 male
Output Connector Type	4.3-10 female
Weight	0.3kg (0.661lb)

TEMPERATURE SPECIFICATIONS

Temperature Range	-40°C to 55°C (-40°F to 131°F)
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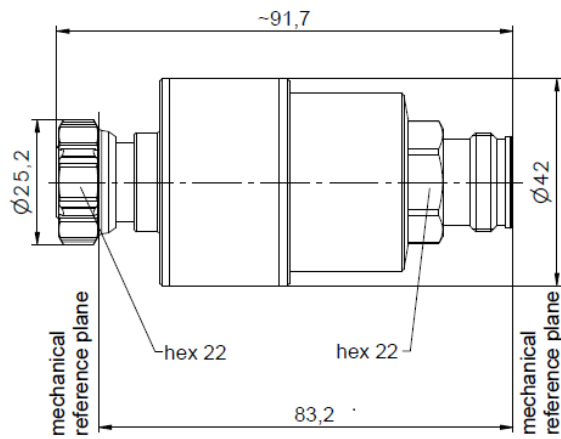
TESTING AND ENVIRONMENTAL

Environmental Class	IP67 per EN60529
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Value Propositions