



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
- 7-16 male/female connector

## **Technical features**

#### **GENERAL SPECIFICATIONS**

## **ELECTRICAL SPECIFICATIONS**

Frequency Range	80 - 3800			
Impedance	50 Ohm			
Value of insertion loss	Lower Frequency		Upper Frequency	
0.25	80		3800	
VSWRMAX	ReturnLossDB	LowerFr	equency	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	7-16 male
Output Connector Type	7-16 female

## **TEMPERATURE SPECIFICATIONS**

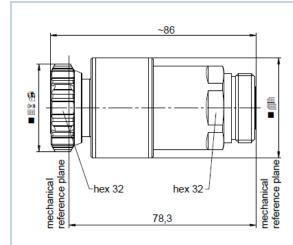
Temperature Range	-40°C to 55°C (-40°F to 131°F)
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### **TESTING AND ENVIRONMENTAL**

Environmental Class	IP67 per EN60529
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DC-BLOCK-3-7MF-1 REV: B **REV DATE: 15 Nov 2025** www.rfsworld.com





# **Related Documents**



DC-BLOCK-3-7MF-1REV : BREV DATE : 15 Nov 2025www.rfsworld.com