



Agilent 11742A Blocking Capacitor

Data Sheet

0.045 to 26.5 GHz
Low insertion loss



The Agilent Technologies 11742A offers a new level of performance in coaxial blocking capacitors. Featuring a frequency range of 0.045 to 26.5 GHz with low SWR (< 1.11 to 12.4 GHz and < 1.23 to 26.5 GHz) and low insertion loss, the 11742A is ideal for use with high frequency oscilloscopes.

The 11742A is also ideal for use in biased microwave circuits such as a DC block, suppressing low frequency signals which may affect the accuracy of your microwave and RF measurements.

The 11742A is an INSIDE block which places the capacitance in series with the center conductor, preventing low frequency signals from flowing along the center conductor. The male and female APC-3.5 mm connectors allow for excellent operation between 0.045 GHz and 26.5 GHz.



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Agilent 11742A Specifications

Frequency range (GHz)	0.045 to 26.5 GHz
Connector type	APC-3.5 mm (m-f)
Insertion loss	
0.045 to 12.4 GHz	0.35 dB maximum
12.4 to 26.5 GHz	0.70 dB maximum
Reflection coefficient	
0.045 to 8.0 GHz	0.052 maximum (1.11 SWR)
8.0 to 12.4 GHz	0.062 maximum (1.13 SWR)
12.4 to 26.5 GHz	0.102 maximum (1.23 SWR)
DC working voltage	50 V maximum
Environmental	
Temperature	
Non-operating	-55 °C to +75 °C
Operating	-5 °C to +60 °C
Altitude	
Non-operating	50,000 ft
Operating	15,000 ft
Humidity	Cycling 5 days, +40 °C @ 95% RH
Vibration	0.015 in. 5-55-5 Hz 15 minutes 3 axes
Shock	100 g, 1 to 2 mS, 3 times 3 planes
EMC	Radiation interference is within the requirements of MIL-STD-461, method RE02, VDE 0871, CISPR Publication 11

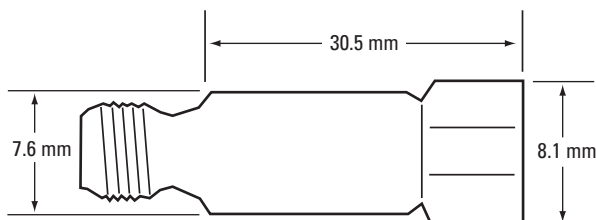


Figure 1. Outline drawing

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