

HP 11742A Blocking Capacitor

Technical Specifications



0.045 to 26.5 GHz Low Insertion Loss

HP's 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 HP 11742A is ideal for use with high frequency oscilloscopes or in biased microwave circuits as a DC block, suppressing low frequency signals which may affect the accuracy of your microwave and RF measurements. The HP 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.



Specifications

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Frequency Range (GHz):	0.045 - 26.5 GHz
Connector Type:	APC-3.5 mm (m-f)
Insertion Loss	
0.045 - 12.4 GHz:	0.35 dB maximum
12.4 - 26.5 GHz:	0.70 dB maximum
Reflection Coefficient	
0.045 - 8.0 GHz:	0.052 maximum (1.11 SWR)
8.0 - 12.4 GHz:	0.062 maximum (1.13 SWR)
12.4 - 26.5 GHz:	0.102 maximum (1.23 SWR)
DC Working Voltage:	50 V maximum
Environmental	
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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" 5-55-5 Hz 15 minimum 3 Axis
Shock:	100 g, 1-2 mS, 3 times 3 planes
EMC:	Radiation interference is within the requirements of
	MIL-STD-461, method RE02, VDE 0871, CISPR
	Publication 11

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