

Custom High Frequency Lowpass Filter



RLC Electronics' High Frequency computerized Low Pass filters are available built to your specifications for both cut-off frequency and rejection regions. This series of filters have cut-off frequencies up to 50.5 GHz with as many as 10 sections.

By varying the number of sections you have direct control of the cut-off frequency and the skirt selectivity. Advanced coaxial techniques and optimum selection of component materials ensure stability over temperature and a low VSWR over the entire passband.

Specifications

F-80 _1_2_3

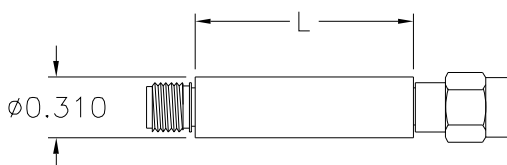
Model No.	Cut-Off Frequency (MHz)	Number of Sections	3 dB Point (Typical)	30 dB Point (Typical)	60 dB Point (Typical)
F-80	26000 to 50500	2	1.4 fc	2.5 fc	5.2 fc
		3	1.15 fc	1.7 fc	2.8 fc
		4	1.09 fc	1.4 fc	2.0 fc
		5	1.07 fc	1.26 fc	1.62 fc
		6	1.05 fc	1.18 fc	1.44 fc
		7	1.04 fc	1.14 fc	1.33 fc
		8	1.04 fc	1.11 fc	1.26 fc
		9	1.03 fc	1.08 fc	1.19 fc
		10	1.02 fc	1.06 fc	1.14 fc

Pass Band	DC to fc	Impedance	50 ohms
Pass Band Ins Loss	0.12dB/section up to 40 GHz 0.18dB/section up to 50.5 GHz	Environmental	MIL-E-5400, Class 1A
Pass Band VSWR	1.8:1 up to 40GHz 2.0:1 up to 50.5GHz	Connector Types	2.92 mm up to 40GHz 2.4 mm or 1.85 mm up to 50.5 GHz
	(1) Cut-off frequency in MHz (2) Number of Sections (3) Connector 2.92, 2.4 or 1.85 Add "M" or "F" for both male or female		

Example : F-80-42000-6-2.4 is a 42000 MHz cut-off, 6 sections with 2.4 mm M/F connectors

Outline Drawing

$L = N \times 0.09 + \text{CONN LENGTH}$
N = NUMBER OF SECTIONS



CONN TYPE	CONNECTOR LENGTH	
	FEMALE	MALE
2.92mm	0.410	0.625
2.4mm	0.455	0.665
1.85mm	0.449	0.605

Specifications subject to change without notification.

Tolerances unless otherwise specified are: .xx ±.02, .xxx ±.005

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