

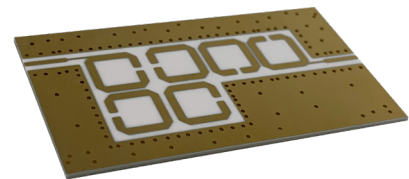
Printed Filters

Thin Film Ceramic

Spectrum Control's low profile planar filters achieve an optimum balance between high performance and minimized package size. Printed filters can be supplied as singular components or incorporated within an integrated microwave assembly to improve SWAP-C. This new product is a natural extension to Spectrum Control's existing portfolio of high performance filter products and provides an additional tool for product optimization. These components target electronic warfare, radar, UAV, navigation, communications, and surveillance applications.

Product Offerings

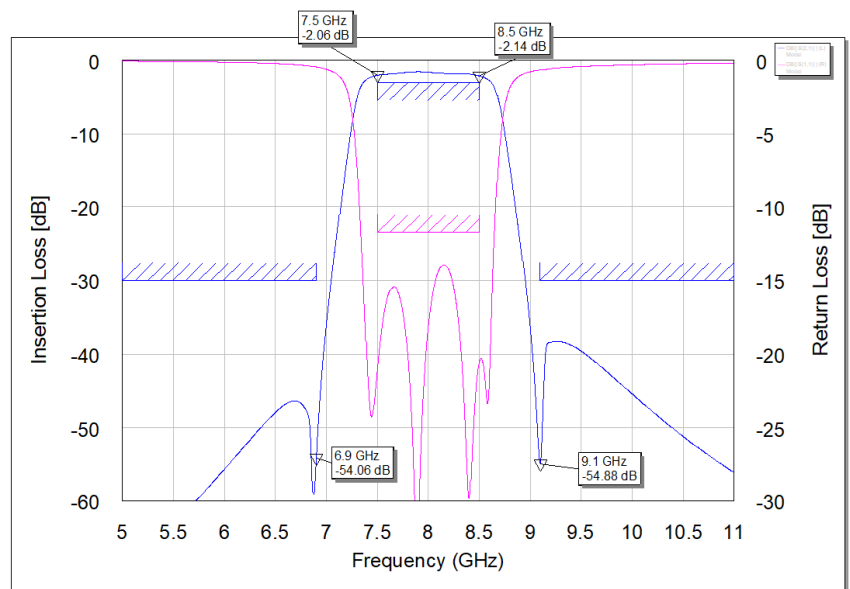
Frequency Range:	2 GHz to 30 GHz
Types:	Lowpass, Bandpass, and Bandreject
Complexity:	2 - 12 sections
Bandwidth:	2% to 100%
Power:	up to 20 watts CW
Operating Temperature:	-40°C to +85°C



8.0 GHz Printed Bandpass Filter

Insertion Loss	7.5 – 8.5 GHz	< 3.0 dB
Return Loss	7.5 – 8.5 GHz	> 11.7 dB
Stopband	0.1 – 6.9 GHz	> 30.0 dBc
	9.1 – 20.0 GHz	> 30.0 dBc
Size	0.90 x 0.50 x 0.20 inches	
Connectors	Surface Mount	

Note: Shield included

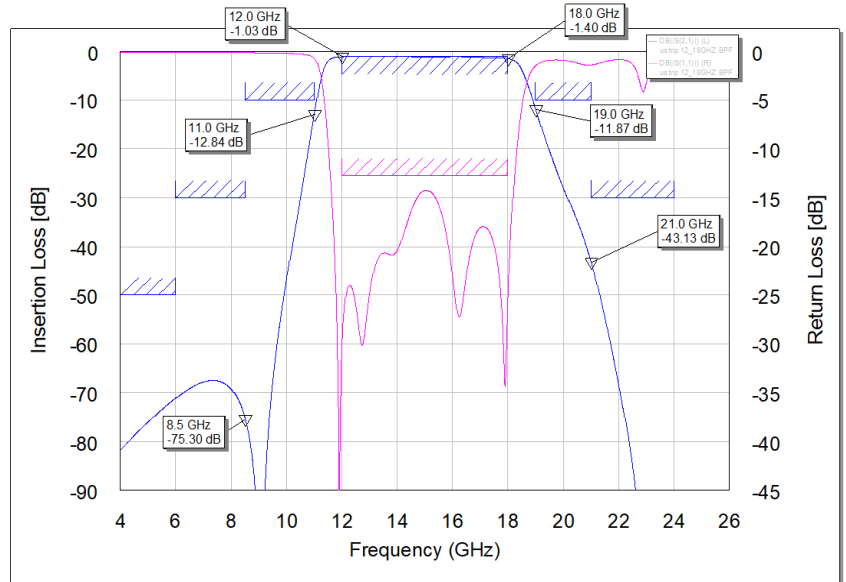


Planar Filters

Thin Film Ceramic

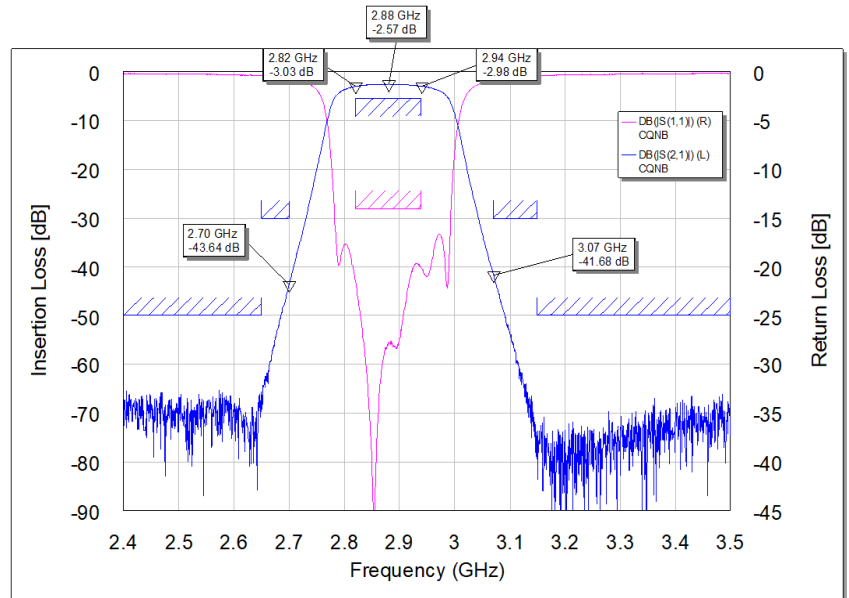
12.0 - 18.0 GHz Printed Bandpass Filter

Insertion Loss	12.0 – 18.0 GHz	<1.5dB
Return Loss	12.0 – 18.0 GHz	>11.7 dB
Stopband	0.1 – 6.0 GHz	>50.0 dB
	6.0 – 8.5 GHz	>30.0 dB
	8.5 – 11.0 GHz	>10.0 dB
	19.0 – 21.0 GHz	>10.0 dB
	21.0 – 24.0 GHz	>30.0 dB
Size	1.00 x 0.40 x 0.03 inches	
Connectors	Surface Mount	



2.88 GHz Printed Bandpass Filter

Insertion Loss @ fc	2.88 GHz	<3.50 dB
Passband Flatness	2.82 – 2.94 GHz	<1.25 dB
PB Return Loss	2.82 – 2.94 GHz	> 11.7 dB
Stopband	0.10 – 2.65 GHz	> 55.0 dBC
	2.65 – 2.70 GHz	>25.0 dBc
	3.07 – 3.15 GHz	>25.0 dBc
	3.15 – 5.00 GHz	>55.0 dBc
Size	1.70 x 0.90 x 0.20 inches	
Connectors	Surface Mount	



Note: Shield included