





Microwave Filter Company

# HIGH Q Notch Filters

**MODELS 9603, 9604, 9607, 9610, 9612**

Microwave Filter Company's line of High Q Notch or Band Reject filters is field tunable using rotating loops and an adjustable resonator for applications in removing interfering carriers that cause intermodulation products.

Standard models are available in single, double and triple cavities covering a broad frequency range of 30-950 MHz. Phased together or cascaded, filter cavities can be combined to increase attenuation at a spot frequency or across a wider band.

Constructed with aluminum housings, high conductivity resonator and an invar tuning rod, the notch filters have excellent power handling capabilities and temperature stability.

Custom designs are also available.

Please feel free to contact the company toll free for additional information.



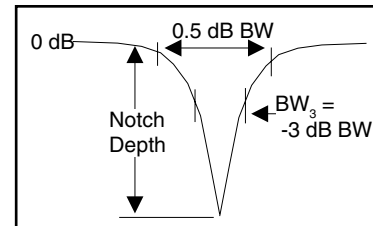
96xx -(F<sub>o</sub>)(# sections)(BW<sub>3</sub>)  
F<sub>o</sub> = Notch frequency

Bandwidth: .....Up to 3% (bandwidth/center frequency)  
 VSWR: ..... 1.5:1 max.  
 Power handling: ..... 350 watts w/0.5 dB insertion loss  
 ..... 250 watts w/1.0 dB insertion loss  
 ..... 100 watts w/2.0 dB insertion loss  
 Temperature stability: ..... 0 .0005 MHz/°C  
 Approx. size: ..... Diameter x 1/4 wave length  
 Connectors: ..... Type N female (50 Ohms)

Freq. Range (MHz)	9603 3"x3"	9604 4"x4"	9607 7" Dia.	9610 10" Dia	9612 12" Dia.
30 - 200					
200 - 300					
300 - 406					
406 - 512					
512 - 700					
700 - 950					

## 0.5 dB BANDWIDTH

Single Cavity	3.0 x BW <sub>3</sub>
Double Cavity	1.80 x BW <sub>3</sub>
Triple Cavity	1.65 x BW <sub>3</sub>



## NOTCH DEPTH - dB

	9603	9604	9607	9610	9612
Single Cavity	20Log $\left[ \frac{120(BW_3)}{\sqrt{F_o}} \right]$	20Log $\left[ \frac{185(BW_3)}{\sqrt{F_o}} \right]$	20Log $\left[ \frac{300(BW_3)}{\sqrt{F_o}} \right]$	20Log $\left[ \frac{380(BW_3)}{\sqrt{F_o}} \right]$	20Log $\left[ \frac{460(BW_3)}{\sqrt{F_o}} \right]$
Double Cavity	40Log $\left[ \frac{120(BW_3)}{\sqrt{F_o}} \right]$	40Log $\left[ \frac{185(BW_3)}{\sqrt{F_o}} \right]$	40Log $\left[ \frac{300(BW_3)}{\sqrt{F_o}} \right]$	40Log $\left[ \frac{380(BW_3)}{\sqrt{F_o}} \right]$	40Log $\left[ \frac{460(BW_3)}{\sqrt{F_o}} \right]$
Triple Cavity	60Log $\left[ \frac{120(BW_3)}{\sqrt{F_o}} \right]$	60Log $\left[ \frac{185(BW_3)}{\sqrt{F_o}} \right]$	60Log $\left[ \frac{300(BW_3)}{\sqrt{F_o}} \right]$	60Log $\left[ \frac{380(BW_3)}{\sqrt{F_o}} \right]$	60Log $\left[ \frac{460(BW_3)}{\sqrt{F_o}} \right]$

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