



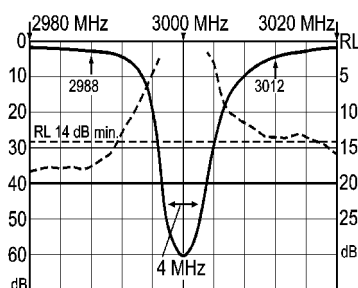
**Wainwright  
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 E-Mail: [info@wainwright-filters.com](mailto:info@wainwright-filters.com)  
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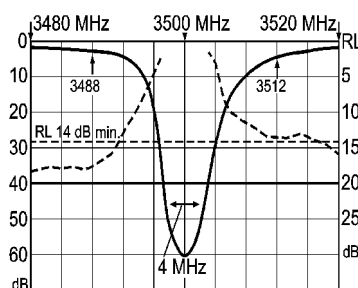
**8 Resonator  
Cavity Design  
WRCF Series**

**Tunable Notch Filter**  
**3000 MHz to 4000 MHz**

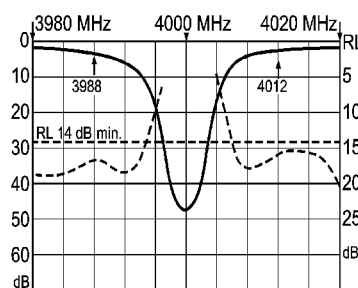
**Model No.**  
**WRCF 3000/4000-4/40-8...**  
 (add connector code - see below)



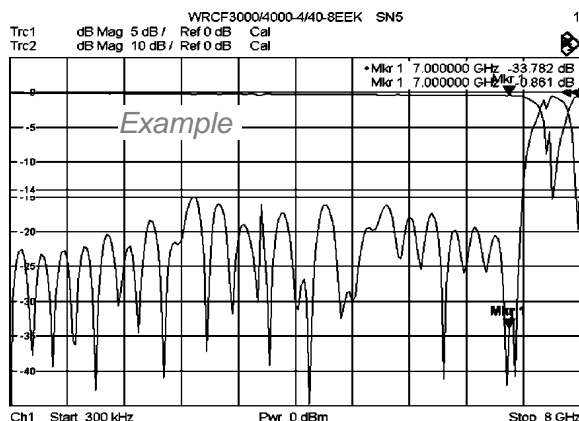
Tuned to the low end



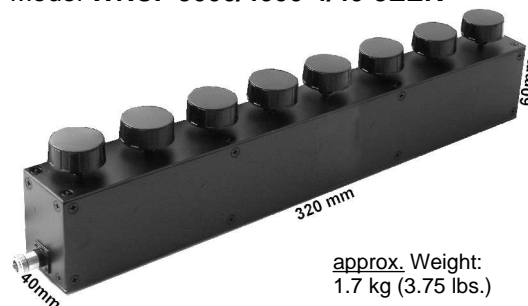
Tuned to 3500 MHz



Tuned to the high end



Model WRCF 3000/4000-4/40-8EEK



approx. Weight:  
1.7 kg (3.75 lbs.)

Available with Tuning Knobs only

This filter will produce up to 8 notches in the passband. The notch  $F_o$  is determined by the user by tuning each resonator. Each notch is very narrow and has 5 to 10 dB reject attenuation. Several notches can be combined by tuning them to the same frequency. This increases the notch depth and width. Attenuation will be greater at the low end of the tuning range and less at the upper end. The filter is designed to produce a 4 MHz bandwidth with at least 40 dB reject attenuation when all notches are tuned to 3500 MHz. The temperature specification of +15° to +40°C applies to this frequency and stability decreases away from the center towards both ends of the range. Each filter is tested over the full range and 4 curves (as shown above) are supplied on delivery.

Specifications	Model No. WRCF3000/4000-4/40-8...	Add connector code (SS or EE)
<b>Tuning Range:</b>	3000 to 4000 MHz	
<b>Passband Loss:</b>	1 dB max. DC to 7000 MHz - <u>except</u> 3 dB max. at $F_o \pm 12$ MHz at notch corners	
<b>Return Loss (50 <math>\Omega</math>):</b>	14 dB min. = VSWR 1.5 : 1 max.	
<b>Notch attenuation:</b>	40 dB min. at $F_o$ (3500 MHz) $\pm 2$ MHz	
<b>Oper. Temperature:</b>	+15°C to +40°C	
<b>Connector Codes:</b>	SMA-female = <b>SS</b> or N-female = <b>EE</b> on <u>each</u> 60 x 40 mm surface	
<b>Mounting Provision:</b>	4 x M4 threaded holes each on all sides - see drawing <a href="#">UMP-1</a> (Website)	
<b>Dimensions:</b>	60 mm high (plus tuning knobs) x 40 x 320 mm long (plus connectors)	
<b>Prices:</b> When purchasing 1 - 4 pcs.	<b>Euro: € 1.574,--</b>	<b>US-\$: <u>Will be quoted.</u></b>
<b>Delivery Terms:</b>	FCA Andechs-Frieding (free carrier) according to <i>Incoterms 2000</i> . In Deutschland liefern wir frachtfrei gemäß CPT <i>Incoterms 2000</i> (unversichert). Regarding payment terms and Warranty see <a href="#">Terms and Conditions</a> .	
Test Sheet with Analyzer Curves supplied.		

**Delivery Time:** normally 4 to 6 weeks - depending on work load in the factory at time of order.