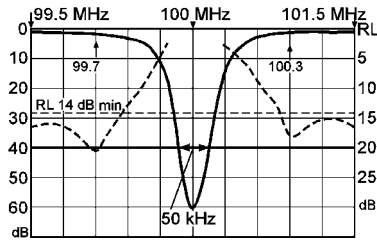




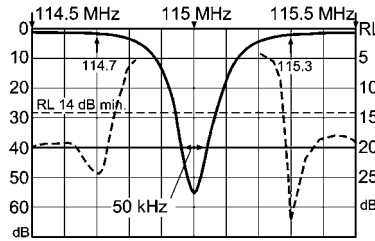
**Wainwright  
Instruments GmbH**

Widdersberger Str.14  
**D82346 Andechs, Germany**  
 Tel.: +49-8152-918230 Fax: +49-8152-918255  
 E-Mail: [info@wainwright-filters.com](mailto:info@wainwright-filters.com)  
 Internet: [www.wainwright-filters.com](http://www.wainwright-filters.com)

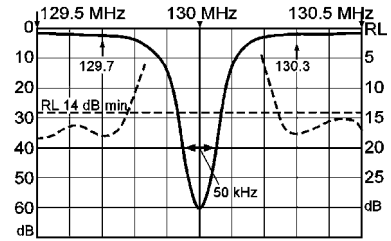
**5 Resonator Cavity Design WRCD Series Tunable Notch Filter 100 to 130 MHz**  
**Model No. WRCD 100/130-0.05/40-5...**  
 (add codes - see below)



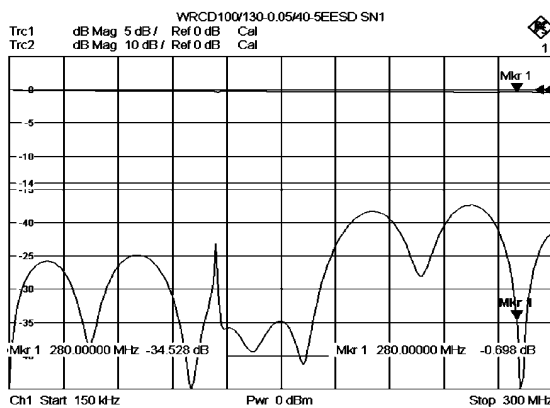
Tuned to the low end



Tuned to 115 MHz



Tuned to the high end



Available with Tuning Knobs or Screwdriver Tunable

This filter will produce up to 5 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 50 kHz bandwidth with at least 40 dB reject attenuation when all notches are tuned to 115 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. WRCD 100/130-0.05/40-5...	Add connector code (SS or EE) and option code (K or SD)
<b>Tuning Range:</b>	100 to 130 MHz	
<b>Passband Loss:</b>	1.2 dB max. DC to 280 MHz <u>except</u> 3 dB max. at $F_o \pm 300$ kHz (notch corners)	
<b>Return Loss(50 <math>\Omega</math>):</b>	14 dB min. = VSWR 1.5 : 1 max.	
<b>Notch Attenuation</b>	40 dB at 115 MHz $\pm$ 25 kHz	
<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> 500 x 75 mm surface	
<b>Options Codes:</b>	Filters with tuning knobs = <b>K</b> - filters with slots for screwdriver tuning = <b>SD</b>	
<b>Mounting Provision:</b>	4 x M4 threaded holes each on all sides - see drawing UMP-1 (Website)	
<b>Dimensions:</b>	500 mm high (plus tuning knobs) x 75 x 375 mm (plus connectors)	
Price Basis: see Ord.Inf., Terms, Warranty	<b>PRICES: Euro:</b> Price based on shipment ex factory	<b>US-<math>\\$</math>:</b> Price includes shipping, import charges and customs duty. *
When purchasing 1 - 4 pcs.	<b>€1.697,-</b>	<b>\$ 2,630.-</b>
Test Sheet with Analyzer Curves supplied.		
* Prices in US-\$ for shipments to the USA only. American customers are welcome to purchase at EURO-prices and carry postage/freight and import charges directly.		

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