



**Wainwright
Instruments GmbH**

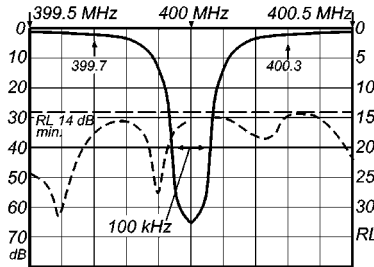
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**6 Resonator
Cavity Design
WRCA Series**

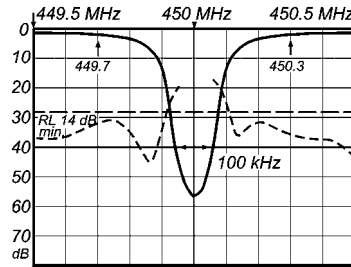
Tunable Notch Filter

400 to 500 MHz

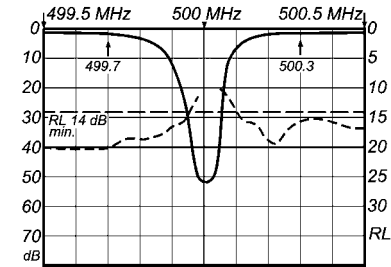
**Model No.
WRCA 400/500-0.1/40-6...**
(add codes - see below)



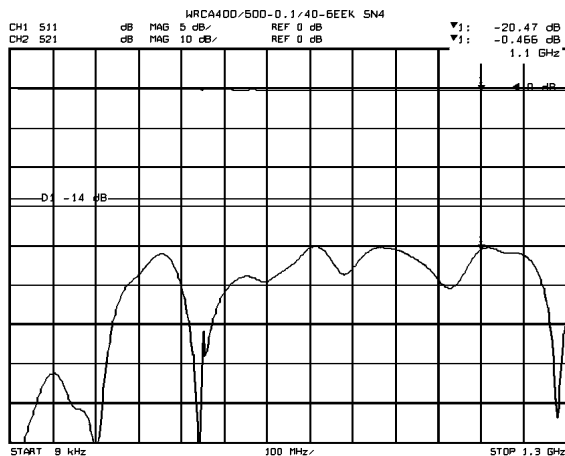
Tuned to the low end



Tuned to 450 MHz



Tuned to the high end



Model **WRCA 400/500-0.1/40-6EEK** Weight: **approx. 15.6 kg (34.3 lbs.)**



Available with Tuning Knobs or Screwdriver Tunable

This filter will produce up to 6 notches in the passband. The notch Fo 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 100 kHz bandwidth with at least 40 dB reject attenuation when all notches are tuned to 450 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. WRCA 400/500-0.1/40-6.....	Add connector code (SS or EE) and option code (K or SD)
Tuning Range:	400 to 500 MHz	
Passband Loss:	1.0 dB max. Dc to 1100 MHz - <u>except</u> 2.0 dB max. at Fo ± 300 kHz notch corners	
Return Loss (50Ω):	14 dB min. (VSWR = 1.5 : 1)	
Notch attenuation:	40 dB min. at Fo (450 MHz) ± 50 kHz	
Oper. Temperature:	+15°C to +40°C	
Connector Codes:	SMA-female = SS or N-female = EE - both on <u>one</u> 175 x 410 mm surface	
Options Codes:	Filters with tuning knobs = K - Filters with slots for screwdriver tuning = SD	
Mounting Provision:	4 x M4 threaded holes each on all sides - see drawing UMP-1 (Website)	
Dimensions:	175 mm high (plus tuning knobs) x 275 mm plus connectors x 410 mm	
Price Basis: see Ord.Inf., Terms, Warranty	PRICES:	US-\$: Price includes shipping, import Charges and customs duty. *
When purchasing	1 - 4 pcs. Euro: Price based on shipment ex factory €1.965,-	\$ 3,000.-
Test Sheet with Analyzer Curve 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.