



**Wainwright
Instruments GmbH**

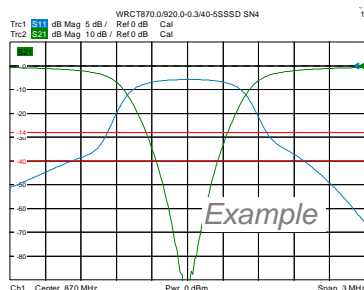
Widdersberger Str. 14
82346 Andechs, Germany
 Tel.: +49-8152-918230 Fax: +49-8152-918255
 E-Mail: info@wainwright-filters.com
 Internet: www.wainwright-filters.com

**5 Resonator
Cavity Design
WRCT Series**

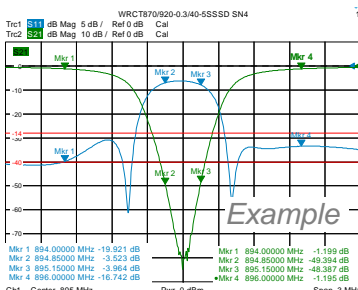
Tunable Notch Filter

870 to 920 MHz

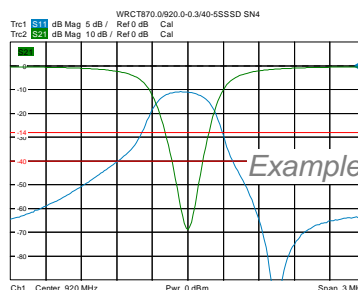
**Model No.
WRCT870/920-0.3/40-5...**
 (add codes - see below)



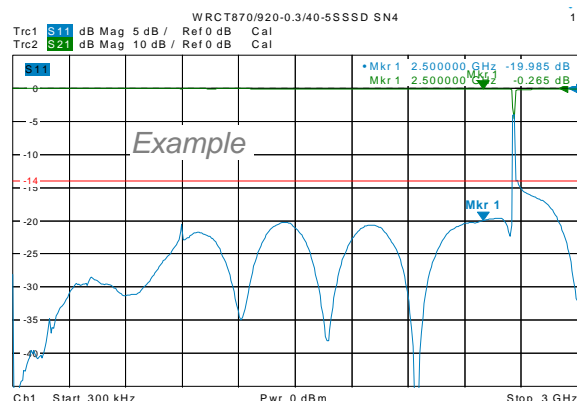
Tuned to the low end



Tuned to 895 MHz



Tuned to the high end



Model WRCT 870/920-0.3/40-5EEK



Available with Tuning Knobs or Screwdriver Tunable

This filter is similar to the design of the customer specified Fo models. It will produce up to 5 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 300 kHz bandwidth with at least 40 dB reject attenuation when all notches are tuned to 895 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. WRCT 870/920-0.3/40-5...	Add connector code (SS or EE) and option code (K or SD)
Tuning Range:	870 to 920 MHz	
Passband Loss:	1 dB max. DC to 2500 MHz - <u>except</u> 3 dB max. at Fo ± 1 MHz at notch corners	
Return Loss (50 Ω):	14 dB min. = VSWR 1.5 : 1 max.	
Notch attenuation:	40 dB min. at Fo (895 MHz) ± 150 kHz	
Oper. Temperature:	+15°C to +40°C	
Connector Codes:	SMA-female = SS or N-female = EE - on <u>each</u> 107 x 60 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:	107 mm high (plus tuning knobs) x 60 x 300 mm (plus connectors)	
Prices: When purchasing 1 - 4 pcs.	Euro: € 1.167,--	US-\$: <u>Will be quoted.</u>
Delivery Terms:	FCA Andechs-Frieding (free carrier) according to Incoterms 2000 . In Deutschland liefern wir frachtfrei gemäß CPT Incoterms 2000 (unversichert). Regarding payment terms and Warranty see Terms and Conditions .	
Test Sheet with Analyzer Curves supplied.		
Delivery Time: Will be quoted.		