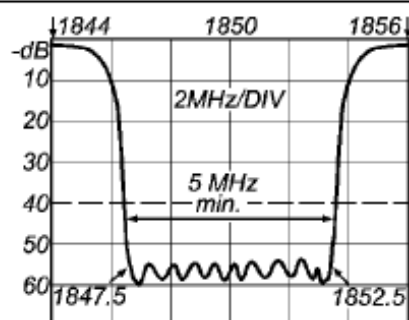


WRCT1850.2170-5.40-1

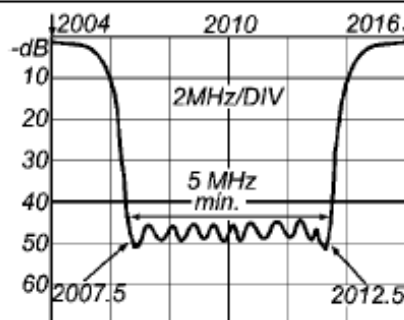
10 Resonator
Cavity Design
WRCT Series

Tunable Band Reject Filter 1850 to 2170 MHz 5 MHz Reject Bandwidth

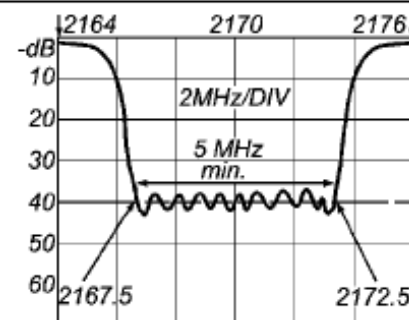
Model Number
WRCT 1850/2170-
5/40-10....
(add codes - see
below)



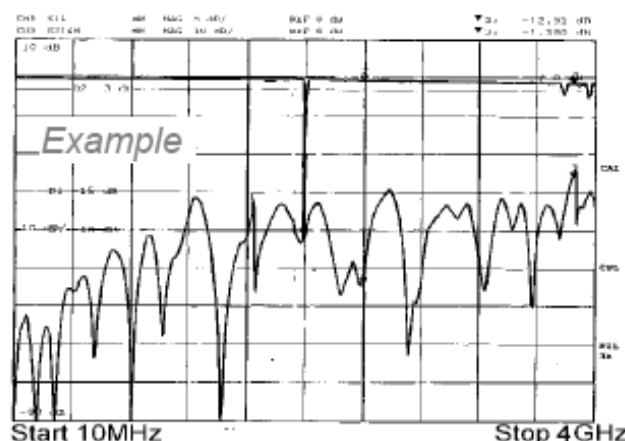
Tuned to the low end



Tuned to 2010 MHz

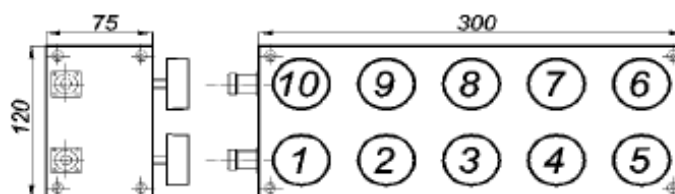


Tuned to the high end



approx. Weight:
4.7 kg (10.3 lbs.)

Available with Tuning Knobs
or Screwdriver Tunable



The filter will be delivered with the resonators tuned to produce at least 40 dB attenuation at 2010 MHz \pm 2.5 MHz. Each resonator has a number (1 to 10). A response curve is supplied, showing which point of the curve is controlled by which resonator. To re-tune to a somewhat lower or higher frequency, small changes can be made on all 10 resonators, retaining the same 5 MHz BW and 40 dB min. attenuation. For frequencies further away from the tuning range center, a different resonator combination may be needed. We supply tuning instructions for the low end and the high end of the tuning range as well as the one for the mid band. For frequencies between the mid band and the lower or higher end, we recommend using the resonator combination closest to the desired new notch frequency. The temperature specification applies at 2010 MHz \pm 2.5 MHz, and stability decreases away from the center towards both ends of the tuning range. Four Network Analyzer Curves are supplied with each filter - three as described above and one covering DC to 3600 MHz.

Specifications	Model No. WRCT 1850/2170-5/40-10...	Add connector code (SS or EE) and option code (K or SD)
Tuning Range:	1850 to 2170 MHz	
Passband Loss:	1.5 dB max. DC to 3600 MHz - except 3 dB max. at $F_o \pm 6$ MHz at notch corners	
Return Loss (50 Ω):	14 dB min. = VSWR 1.5 : 1 max.	
Reject attenuation:	40 dB min. at F_o (2010 MHz) \pm 2.5 MHz	
Oper. Temperature:	+15°C to +40°C	
Connector Code:	SMA-female = SS or N-female = EE - both connectors on one 75 x 120 mm surface	
Options Code:	Filters with tuning knobs = K - Filters with slots for screwdriver tuning = SD	
Mounting Provision:	4 x M4 threaded holes each on 5 sides - see drawing UMP-1 (Catalog, Website)	
Dimensions:	75 mm high (plus tuning knobs) x 120 x 300 mm (plus connectors)	