

WR550-100x

902-928 MHz Bandpass Cavity Filters

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902-928 MHz Bandpass Cavity Filters

- Base station bandpass cavity filter for use with WaveRider's 900 MHz CCUs
- Superior performance in a compact form factor
- Reduces out-of-band interference
- Assists in adjacent channel rejection for collocation of base stations
- Shelf and wall mounting brackets included

Ordering Information

SKU#	Description
WR550-1001	Filter BP LL NB 905M 10"x6.75"x3.0"
WR550-1002	Filter BP LL NB 908.4M 10"x6.75"x3.0"
WR550-1003	Filter BP LL NB 911.6M 10"x6.75"x3.0"
WR550-1004	Filter BP LL NB 915M 10"x6.75"x3.0"
WR550-1005	Filter BP LL NB 918.4M 10"x6.75"x3.0"
WR550-1006	Filter BP LL NB 921.6M 10"x6.75"x3.0"
WR550-1007	Filter BP LL NB 925M 10"x6.75"x3.0"

Application

Additional filtering, on each channel of multiple CCU installations, is required at the CAP. There are various performance parameters that dictate the requirement for this additional filtering; receiver adjacent channel rejection, transmitter sidelobe suppression, and out-of-band interference rejection.

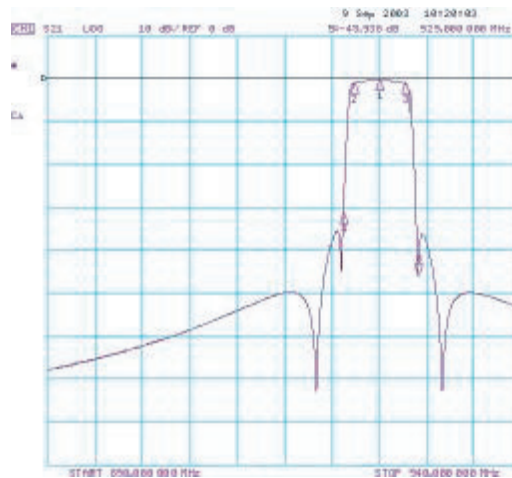
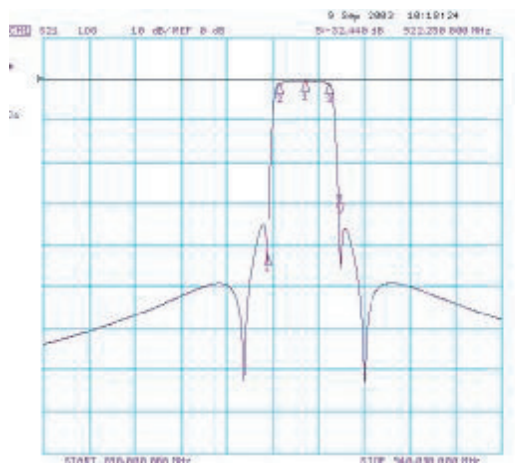
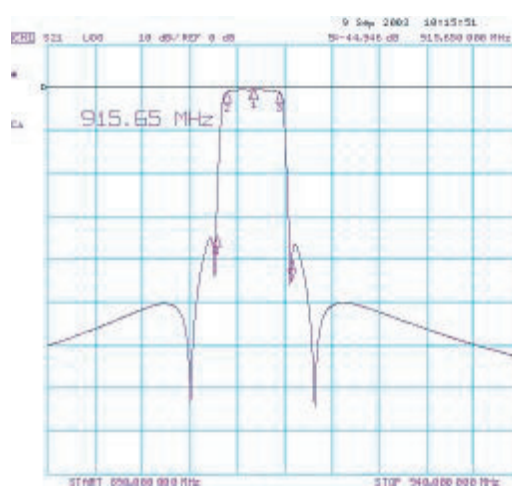
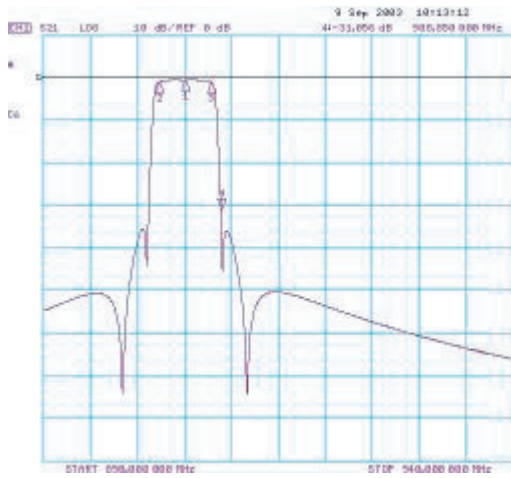
A high degree of filtering may be achieved through the use of external cavity filters. These filters are tuned to pass signals within a particular channel bandwidth only. These filters provide in excess 35-dB of attenuation to signals outside of the channel BW.

The narrow band (NB) filter is intended for either the co-location of multiple CCUs, which must meet the required receiver adjacent channel rejection, transmitter sidelobe suppression, and out-of-band interference rejection or to reject any other adjacent or in-band noise emitting from different sources.

The current cavity filters are each quite compact relative to the first generation filters. These filters can be directly fitted on a standard cabinet/rack shelf using the accompanying mounting brackets. Alternatively, the filters may be mounted in their own enclosure or to a wall.



Response Curves



Specifications

ELECTRICAL	
Frequency Range:	WR550-1001 Channel usage 905.0 or 905.2 MHz WR550-1002 Channel usage 908.4 or 908.2 or 908.6 MHz WR550-1003 Channel usage 911.6 or 911.4 or 911.8 MHz WR550-1004 Channel usage 915.0 or 914.8 or 915.2 MHz WR550-1005 Channel usage 918.4 or 918.2 or 918.6 MHz WR550-1006 Channel usage 921.6 or 921.4 or 921.8 MHz WR550-1007 Channel usage 925.0 or 924.8 MHz
Insertion Loss	0.5 dB (typ) at center of channel, 1.5 dB (max) across passband
Return Loss	18.0 dB (min)
Rejection for narrow band (5.5 MHz):	
> +/- 6 MHz of center frequency:	50 dB min
+/- 4 to 6 MHz of center frequency:	35 dB min
MECHANICAL	
Dimensions (L x W x H)	10.0 in X 6.75 in x 3.0 in (254 X 171.5 X 76.2 mm)
Weight	8.0 lbs (3.6 Kg)
Connectors (2)	N-Type Female
Operating Temperature	-30-deg to +60-deg C
NOT for outdoor USE, must be indoors or in weatherproof enclosure	



Vecima Networks Inc.
 150 Cardinal Place Saskatoon, SK S7L 6H7
 T: (888) 292-8266 / (306) 955-7075
 F: (306) 955-9919
 E: sales@vecimanetworks.com
 www.vecimanetworks.com