



107497, Moscow Chernicinsky pr-d 7/1  
Tel.: (495) 775-43-19, 462-44-14  
Tel./fax: 462-44-14  
E-mail: radial@radial.ru  
www.radial.ru

## Bandreject filters

Model	Short description	Band, MHz	Price, EUR
RF5-1V	Single Cavity, 5", N-fem., -20 dB @ $\Delta f$ BP/BR=400 kHz	140-174	182
RF5-2V	Dual Cavity, 5", N-fem., -50 dB @ $\Delta f$ BP/BR=400 kHz	140-174	384
RF8-1V	Single Cavity, 8", N-fem., -20 dB @ $\Delta f$ BP/BR=300 kHz	140-174	254
RF8-2V	Dual Cavity, 8", N-fem., -60 dB @ $\Delta f$ BP/BR=300 kHz	140-174	529
RF8-1UL	Single Cavity, 8", N-fem., -30 dB @ $\Delta f$ BP/BR=250 kHz	400-490	254
RF8-2UL	Dual Cavity, 8", N-fem., -60 dB @ $\Delta f$ BP/BR=250 kHz	400-490	529
RF10-1UL	Single Cavity, 10", N-fem., -13 dB @ $\Delta f$ BP/BR=200 kHz	400-490	298

2011



## 140-174 MHz Bandreject filters RF5-1V, RF5-2V, RF8-1V, RF8-2V

107497, Moscow Chernicinsky pr-d 7/1  
Tel.: (495) 775-43-19, 462-44-14  
Tel./fax: 462-44-14  
E-mail: radial@radial.ru  
www.radial.ru

RF5-1V



RF5-2V



RF8-1V



RF8-2V



### Electrical specifications

Model	RF5-1V	RF5-2V	RF8-1V	RF8-2V
Operating Frequency band, MHz			140-174	
Insertion loss (adjustable), dB	0,5-3	1-3	0,5-3	1-3
Impedance, Ohm			50	
Attenuation (see fig.n) $\Delta f$ BP/BR=400 kHz(RF5), dB	23	50	18	40
$\Delta f$ BP/BR=200 kHz(RF8), dB			1,5	
VSWR, not more than			not more than 300	
Input power, not more, W			from -30 to +60	
Temperature Range, °C			1/4 $\lambda$	
Cavity electrical length			1/4 $\lambda$	

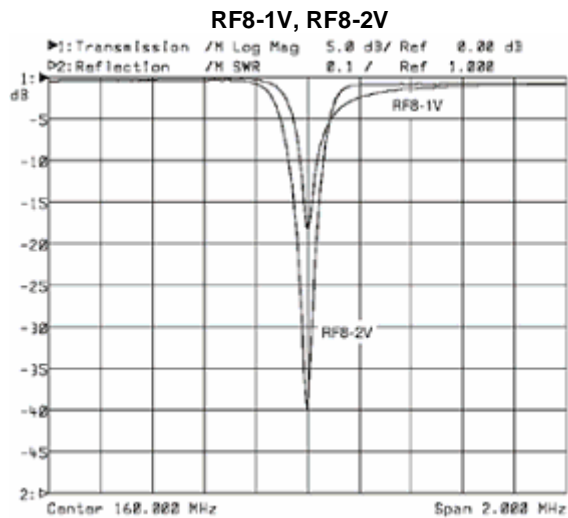
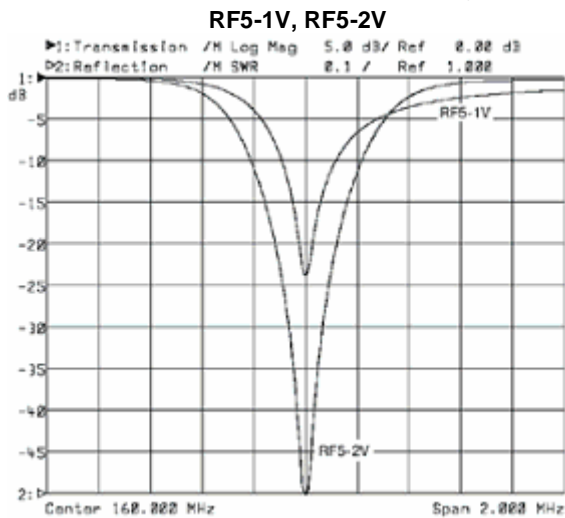
### Mechanical specifications

Model	RF5-1V	RF5-2V	RF8-1V	RF8-2V
Diameter, mm (ins.)		128 (5")		206 (8")
Weight, kg	1,8	4,2	3,3	7,3
Connector			N-female	
Mount to 19-inch rack	optional	yes	optional	yes
Length/Width/Depth, mm	800x128x128	800x480x140	800x206x206	800x480x210

Bandreject filters RF5-1V are recommended to use in radio stations and repeaters receiving section if nearby powerful transmitter, operating at known neighboring frequency, is present. These are signals of paging transmitters or repeater native transmitters,

usually. Bandreject filter enables to effectively eliminate interference at significantly lower frequency separation, unlike bandpass filter. Model RF5-2V is assembled from two single filters RF5-1V, connected by cables in series and fastened mechanically by metal brackets.

### Typical selectivity characteristics





# 400-490 MHz Bandreject filters RF8-1UL, RF10-1UL

107497, Moscow Chernicinsky pr-d 7/1  
Tel.: (495) 775-43-19, 462-44-14  
Tel./fax: 462-44-14  
E-mail: radial@radial.ru  
www.radial.ru



### Electrical specifications

Model	RF8-1UL	RF8-2UL	RF10-1UL
Operating Frequency band, MHz		400-490	
Insertion loss (adjustable), dB	0,5-3	1-3	0,5-3
Impedance, Ohm		50	
Attenuation (see fig.n) $\Delta f$ BP/BR=200 kHz, dB	18	35	13
VSWR, not more than		1,5	
Input power, not more, W		not more than 300	
Temperature Range with garanted stabilization, °C		from -30 to +60	
Cavity electrical length		3/4 $\lambda$	

### Mechanical specifications

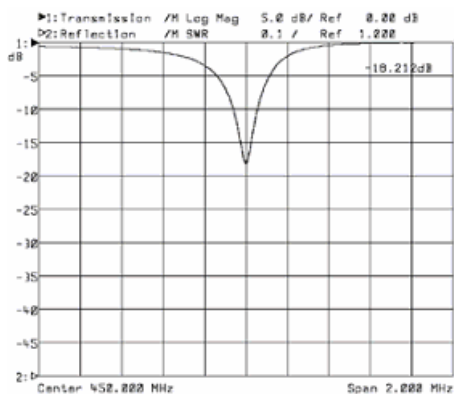
Model	RF8-1UL	RF8-2UL	RF10-1UL
Diameter, mm (ins.)	206 (8")		257 (10")
Weight, kg	3,3	4,2	3,9
Connector		N-female	
Mount to rack	optional	19" or	24"
Length/Width/Depth, mm	800x206x206	800x480x210	800x257x257

Bandreject filters RF8-UL have found themselves in radio stations and repeaters receiving section operating closely to powerful transmitter, operating at known neighboring frequency. Bandreject filter enables to effectively eliminate interference at significantly lower frequency separation, unlike bandpass filter.

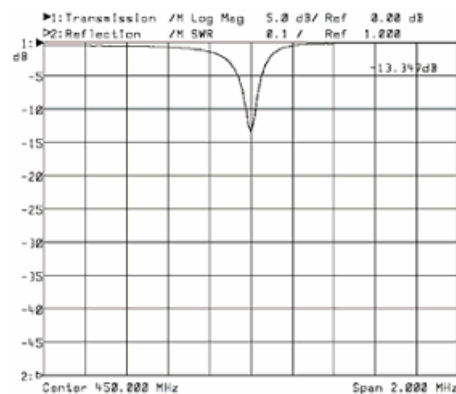
Presence of 3/4-wave cavity in bandreject filter will save your transmitters from persistent signals of paging transmitters or telemetry systems, located closely to your antennas.

Careful selection of cable junction in RF8-2UL and RF8-3UL filters provides maximum convergence of pass and reject frequency preserving low loss.

### Typical selectivity characteristics



RF8-1UL



RF10-1UL