



## 400-490 MHz Bandpass/bandreject filters PRF4-1U, PRF8-1U

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PRF4-1U



PRF4-2U



PRF8-1U



PRF8-2U



### Electrical specifications

Model	PRF4-1U	PRF4-2U	PRF8-1U	PRF8-2U
Operating Frequency band, MHz			400-490	
Insertion loss (adjustable), dB	0,5-3	1-3	0,5-3	1-3
Impedance, Ohm			50	
Rejection level $\Delta f$ BP/BR=5MHz, dB	30	70	30	70
VSWR, not more than			1,5	
Input power, not more, W			not more than 300	
Temperature Range, °C			from -30 to +60	
Cavity electrical length			1/4 $\lambda$	

### Mechanical specifications

Model	PRF4-1U	PRF4-2U	PRF8-1U	PRF8-2U
Diameter, mm (ins.)		116 (4")		206 (8")
Weight, kg	1,25	3,2	1,75	4,2
Connector			N-female	
Mount to 19-inch rack	optional	yes	optional	yes
Length/Width/Depth, mm	360x110x110	360x480x115	360x206x206	360x480x212

Band pass-reject filter PRF4-1U is tuned to pass specific frequency and to reject another specific frequency simultaneously.

Filter PRF4-1U with band pass-reject feature is essential if nearby interference is present. Install this filter in receiver antenna

section and tune rejection in to interfering signal, and you will appreciably improve receiving conditions attenuating interference by 38 dB. Filter PRF4-2U has higher characteristics at corresponding loss Band pass-reject filter PRF8-1U is tuned so as to pass specific frequency and to reject interference frequency simultaneously. If single filter will help you to eliminate strong nearby interference, then dual will enable to produce duplex repeater with separate receiving and transmitting antenna. PRF8-2V installed in these sections will provide complete isolation from transmitter carrier frequency and its noise for any antenna spacing.

**Typical selectivity characteristics**

