

## proFIL 4151 Tunable Cavity Bandpass Filter

(preliminary datasheet, specification can change without notice)

proFIL4150 range of bandpass filters covers UHF band.

proFIL 4151 is manually tunable cavity bandpass filter for lower NATO 1 band (225-325MHz).

proFIL 4151 is designed to minimize in-band and out-band harmonic and spurious transmissions from high power tactical transmitter.

Its low loss design and steep attenuation curve makes it ideal for base station use.

Its compact size and easy tuning makes its use possible also in mobile use.



### FILTER SPECIFICATION (typical values)

Filter type	Band pass cavity filter	Connectors	N-type (female)
Frequency	225-325MHz	Material	Aluminum
Power	100W	Mounting	
Receive loss (@225MHz)	better than -12dB average -18dB	Receive loss (@325MHz)	better than -10dB average -17dB
Pass Band attenuation (center @225MHz)	min: 0,9 dB <1,5dB @4MHz band	Pass Band attenuation (center @325MHz)	min: 0,54dB < 1,5dB @4MHz band
Stop Band attenuation (Center @225MHz)	-70MHz : <-78dB +70MHz: <-72dB +140MHz: < -80dB -140MHz: < -85dB	Stop Band attenuation (Center @325MHz)	-70MHz : <-64dB +70MHz: <-64dB +140MHz: < -66dB -140MHz: < -86dB
Insertion loss	dB	Model	FIL4151
Size	270x180x50mm weight: 1.8kg	Environment	non condensing -40° - +80°

Ask for other Tunable Cavity Bandpass filter mode