

Band-Pass Filter for the LTE band 451 - 466 MHz

DESCRIPTION

Interference originating from DVB-T transmitters can often lead to saturation of LTE450 receivers disrupting communication reception and reducing radio coverage.

The new mast mountable bandpass filter, PRO-BPF 451-466-LP is designed to suppress high power signals, effectively mitigating interference, and elevating the performance of LTE450 communications. Covering LTE bands 31 and 72.

Key Features:

- PRO-BPF 451-466-LP (Low Pim) is a robust high performance UHF 450 MHz band-pass filter for mounting e.g. in base station masts.
- It is highly used for protecting the receiving side of a LTE radio system or other DMR systems from high power out of band interference occurring from e.g. DVB-T systems or others.
- PRO-BPF 451-466-LP is PIM rated to -150 dBc @ 2 x 20 W (2 x 43 dBm).
- The Band-Pass Filter is built into a IP67 proof enclosure for wall mounting or it can be mounted on masts or pylones. See the Mechanical designation.
- Covers LTE450 band 31 and 72 (451 - 466 MHz)
- Mast mountable – brackets and metal strips included for mounting.



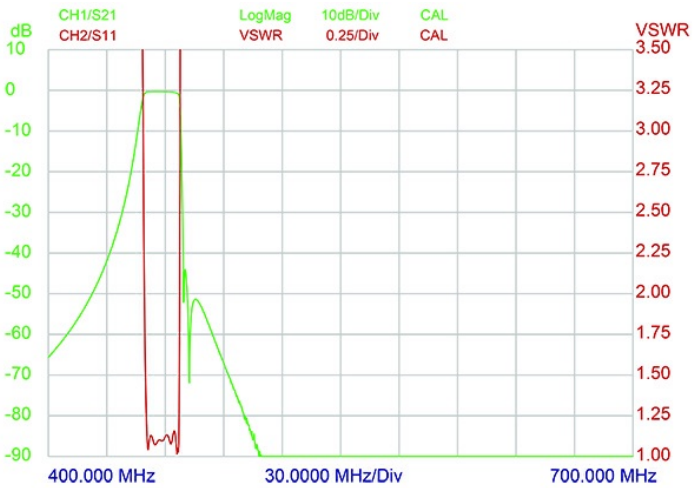
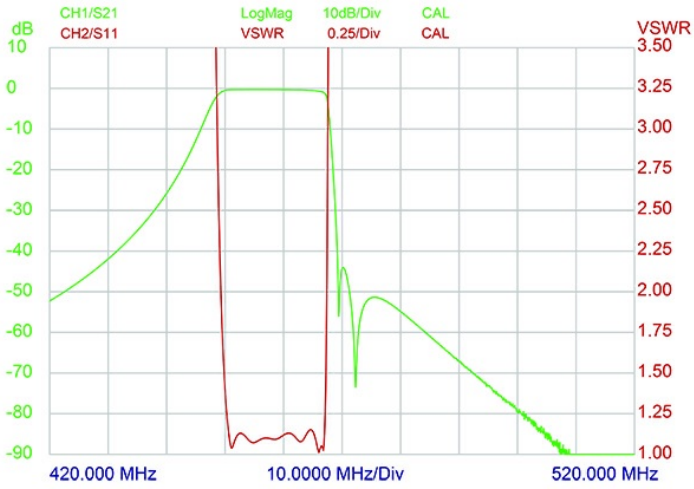
SPECIFICATIONS

Electrical	
Model	PRO-BPF 451-466-LP
Frequency	451 - 466 MHz
Max. Input Power	50 W
Insertion Loss	≤ 1.0 dB
Impedance	50 Ω
Reject Attenuation	≤ 40 dB@ 400 - 430 MHz ≤ 40 dB@ 470 - 695 MHz
VSWR	< 1.3:1 (Return Loss ≤ 18 dB)
Bandwidth	15 MHz
Passive Intermodulation	≤ -150 dBc (@ 2 x 20 W)
Mechanical	
Connection(s)	4.3-10(f)
Colour	Light Grey
Dimensions	312 x 110 x 97 mm / 12.28 x 4.33 x 3.82 in.
Weight	Approx. 2.2 kg / 4.85 lb.
Mounting Bracket	Stainless Steel bracket wall mounted or mounted on poles ø50 - ø90 mm
Environmental	
Operating temperature range	-30 °C to +60 °C
Temp. drift	± 0.5 MHz
Ingress Protection	IP 67

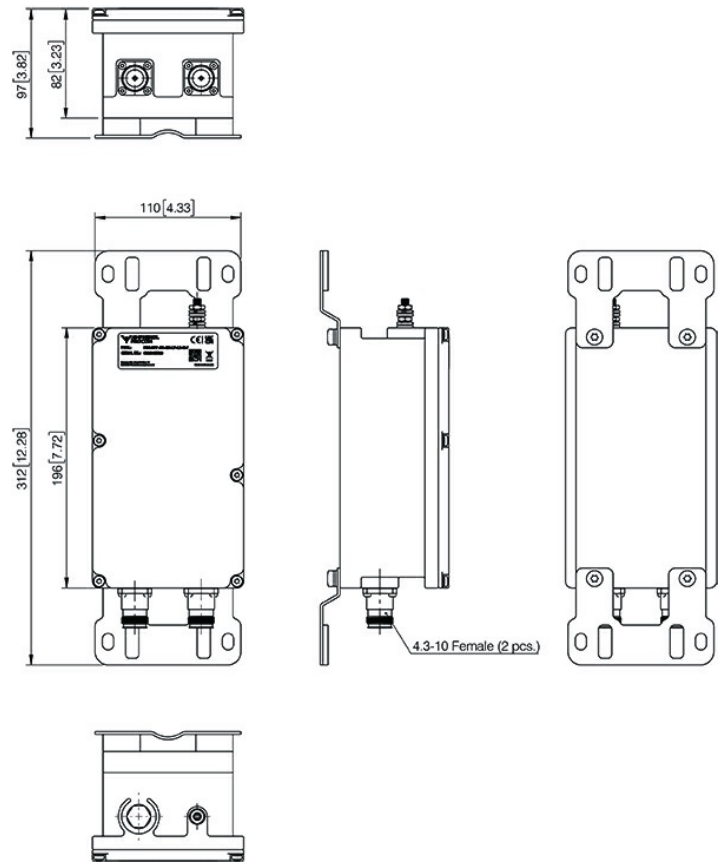
ORDERING

Model	Product No.	Description
PRO-BPF 451-466-LP-4.3-10 (f)	200002953	Low PIM Band-Pass Filter

TYPICAL RESPONSE CURVES



OUTLINE DRAWING



All dimensions are given in mm [in.]

