

Duplex Band-Pass Filter, PIM rated, for the TETRA  
Public Safety/Mission Critical extended band

DESCRIPTION

- The PRO-DPBP 380-EXT is a 2 x 6 resonator high quality Duplex Band Pass filter designed to combine the TETRA extended Tx and Rx band (2 x 6.5 MHz) to one common antenna.
- The high performance filter design secures an improved isolation between the Tx and the Rx TETRA band. It is common used in high power Tetra base stations.
- A pure silver-plating inside the filter ensures a very low PIM and insertion loss.
- The filter uses reduced-length ¼ λ cavities in a compact strong aluminium housing.
- The compact filter will fill in 2 HU in height, 142.5 mm in depth, in a 19" rack, when mounted on a 19" x 2 HU front plate.
- When mounted in a 19" mounting tray, 300 mm in depth, the total height will be 3 HU.

SPECIFICATIONS

Electrical	
Model	PRO-DPBP 380-EXT
Frequency	Rx: 380 - 386.5 MHz Tx: 390 - 396.5 MHz
Max. Input Power	≤ 200 W (RMS)
Peak Input Power	≤ 800 W
Isolation Tx-Rx	≥ 60 dB
Isolation Rx-Tx	≥ 60 dB
Spacing Tx-Rx	3.5 MHz
Insertion Loss	Tx and Rx: ≤ 1.5 dB
DC Stop	Yes: OC (Open Circuit)
Impedance	50 Ω
VSWR	< 1.3:1 (> 18 dB Return loss)
Bandwidth (Tx and Rx)	6.5 MHz
Passive Intermodulation	≤ -150 dBc (@ 2 x 20 W)

Mechanical	
Connection(s)	7/16 DIN(f)
Dimensions	300 x 142.5 (incl. conn.) x 87 mm (incl. adjust. screws) / 11.8 x 5.6 x 3.4 in. Fill in 2 HU in 19" rack mounted on 19" front plate. Connectors on rear side
Weight	Approx. 2.6 kg / 5.7 lb.

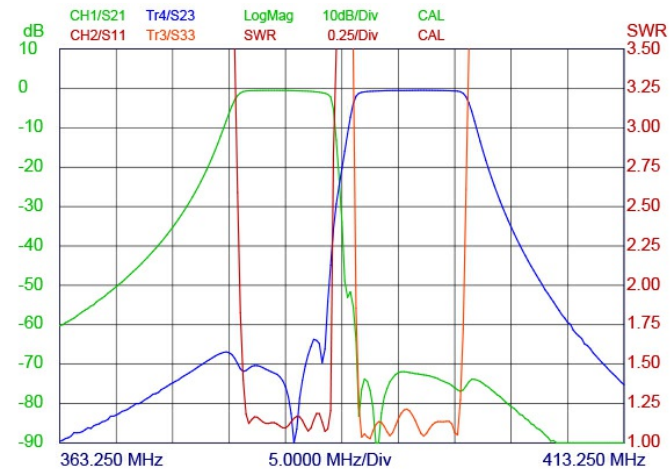
Environmental	
Environmental	-30 °C to +60 °C

ORDERING

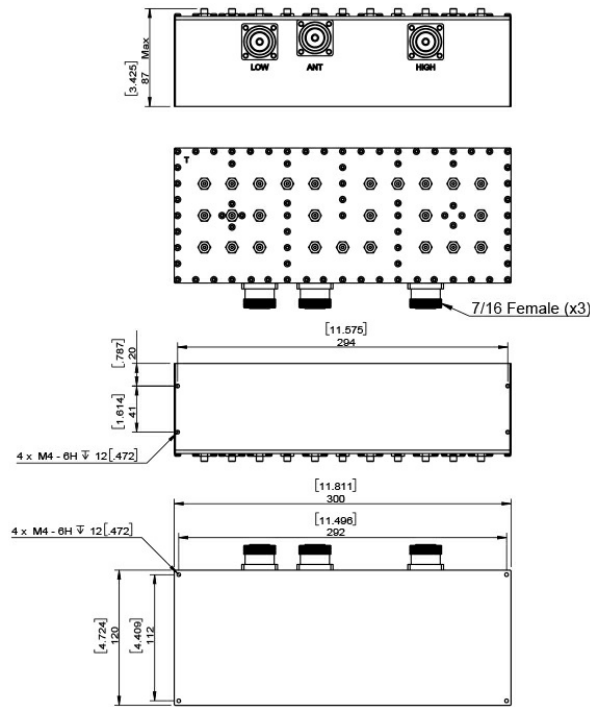
Model	Product No.	Frequency
PRO-DPBP 380-EXT-7/16(f)	200002817	380 - 386.5 MHz / 390 - 396.5 MHz



TYPICAL RESPONSE CURVES



MOUNTING DETAILS



All dimensions are given in mm [in.]