

High power VHF Duplex Band-Pass Filter incl. Low Pass Filter, for PMR/DMR and Telemetry networks

DESCRIPTION

- The DPBP 2/66-150 LL/1-...-1/LPF is a 2 x 6 resonator high quality Duplex Band Pass filter designed to combine special custom required Tx and Rx bands to one common antenna.
- The high performance filter design secures a low Insertion Loss and an improved isolation between the specified Tx and the Rx band.
- The DPBP 2/66-150 LL/1-...-1/LPF can accommodate a continuous power of max. 150 W.
- The DPBP filter includes a low pass filter for highly attenuating the unwanted 3th. & 5th. harmonics occurring from radio system and the DPBP itselfes.
- The DPBP 2/66-150 LL/1-...-1/LPF filter can be fitted into a 19" mounting tray, 3 HU in height, 600 mm in depth.
- For other frequencies in the VHF band please contact Amphenol Procom for availability



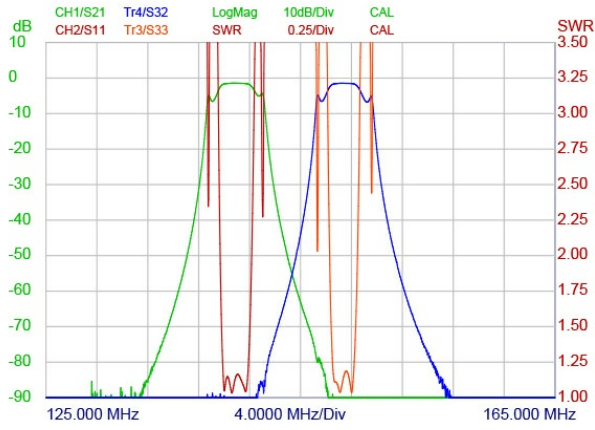
SPECIFICATIONS

| Electrical | |
|-----------------------------|--|
| Model | DPBP 2/66-150 LL/1-...-1/LPF |
| Frequency | Rx: 139.5 - 144 MHz Tx: 148 - 155 MHz (depends on model) |
| Max. Input Power | 150 W |
| Spacing Tx-Rx | 7.5 MHz or 10 MHz |
| Isolation Tx - Rx | > 70 dB |
| Isolation Rx - Tx | > 70 dB |
| Insertion Loss | ≤ 1.7 dB |
| Impedance | 50 Ω |
| Reject Attenuation | > 50 dB @ 3th. & 5th. harmonic |
| VSWR | < 1.3:1 (>18 dB) (Return loss) |
| Bandwidth (Tx and Rx) | 1 MHz |
| Mechanical | |
| Connection(s) | N(f) on all ports |
| Dimensions | 19" x 3 HU x 600 mm (482.6 x 133.4 x 600 mm) / 19 x 5.25 x 23.62 in. |
| Weight | Approx. 14 kg / 30.86 lb. |
| Environmental | |
| Operating temperature range | -30 °C to +60 °C |

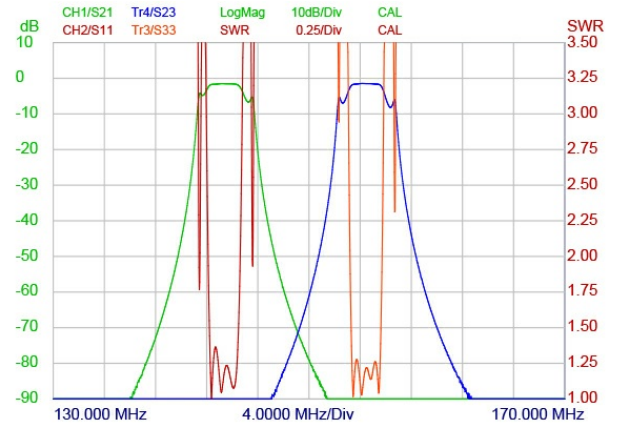
ORDERING

| Model | Product No. | Frequency |
|------------------------------|-------------|---|
| DPBP 2/66-150 LL/1-7.5-1/LPF | 200002895 | Rx: 139.5 - 140.5 MHz / Tx: 148 - 149 MHz |
| DPBP 2/66-150 LL/1-10-1/LPF | 200002833 | Rx: 143 - 144 MHz / Tx: 154 - 155 MHz |

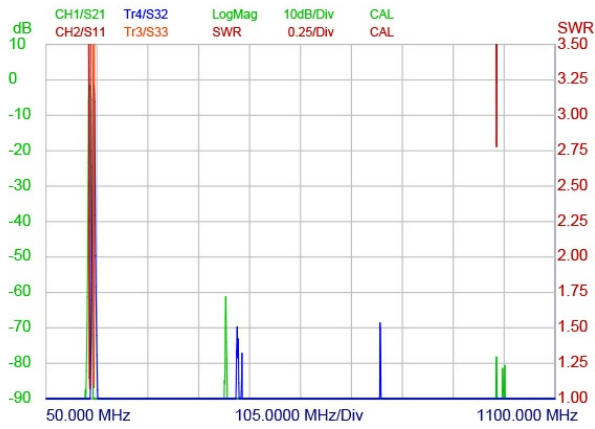
TYPICAL RESPONSE CURVES FOR 7.5 MHZ



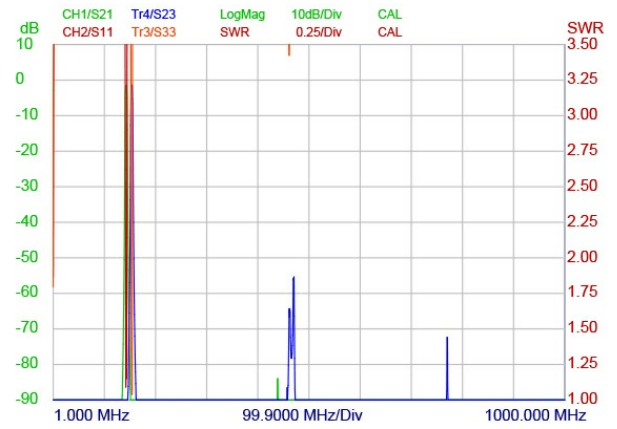
TYPICAL RESPONSE CURVES FOR 10 MHZ



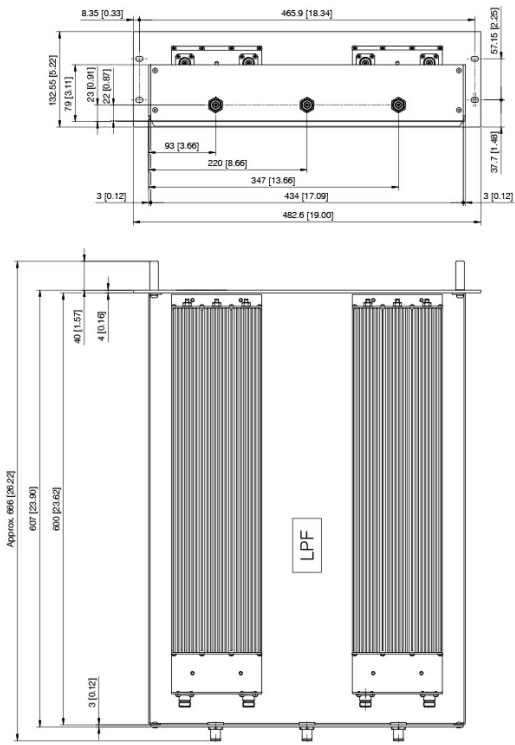
TYPICAL OUT OF BAND CURVES FOR 7.5 MHZ



TYPICAL OUT OF BAND CURVES FOR 10 MHZ



MECHANICAL OUTLINE



All dimensions are given in mm [in.]

