

Mini-Duplex for the extended TETRA Band

DESCRIPTION

- The version MPX 70/44 380-EXT is a 8-resonator small size Duplex Filter. It is especially developed for duplexing into one antenna the Tetra Public Safety extended band together with e.g. the Public Safety DMO (Direct MOfde) frequency range 406 - 410 MHz, or together with the private Tetra networks e.g. in the freq. range 415 - 430 MHz.
- This compact "mini-plexer" meets the demand for a modern, space saving, high performance filter.
- Overall the duplexer MPX 70/44 is available in a variety of different versions depending on duplex spacing, frequency, bandwidth and attenuation. Please ask Customer Service for availability.
- The MPX 70/44 models are tunable within the frequency range 380 - 470 MHz The miniaturization of the filter has been realized by using special high-Q, temperature compensated helical resonators.
- The housing is made of extruded aluminium, the chassis of steel, and teflon insulation has been applied in the rigid coaxial cables and in the connectors.
- MPX 70/44 380-EXT is coated with black vinyl to prevent corrosion.



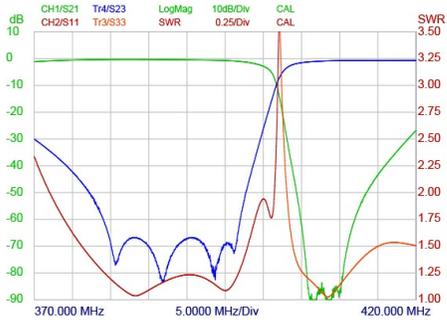
SPECIFICATIONS

| Electrical | | |
|----------------------------------|--|-----------------------------------|
| Model | MPX 70/44 380-EXT/406-410 | MPX 70/44 380-EXT/415-430 |
| Frequency | 380 - 396.5 MHz / 406 - 410 MHz | 380 - 396.5 MHz / 415 - 430 MHz |
| Max. Input Power | 25 W | |
| Insertion Loss Tx-Ant and Ant-Rx | ≤ 1.5 dB | |
| Impedance | 50 Ω | |
| Isolation Tx-Rx | ≥ 60 dB | |
| VSWR | < 1.5:1 | |
| Bandwidth | Low : 16.5 MHz High : 4.0 MHz | Low : 16.5 MHz High : 15.0 MHz |
| Mechanical | | |
| Connection(s) | N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request) | |
| Dimensions | 143 (excl. conn.) x 104 x 56 mm / 5.63 x 4.10 x 2.20 in. | |
| Weight | Approx. 0.7 kg / 1.54 lb. | |
| Environmental | | |
| Operating temperature range | -30 °C to +60 °C | |

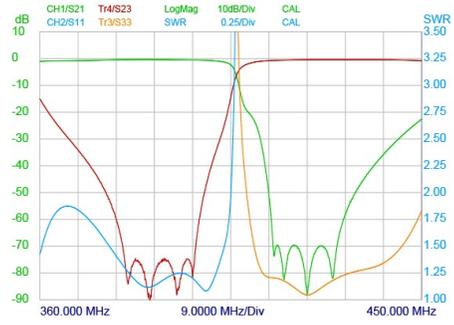
ORDERING

| Model | Product No. | Frequency |
|---------------------------|-------------|---------------------------------|
| MPX 70/44 380-EXT/406-410 | 200002903 | 380 - 396.5 MHz / 406 - 410 MHz |
| MPX 70/44 380-EXT/415-430 | 200002930 | 380 - 396.5 MHz / 415 - 430 MHz |

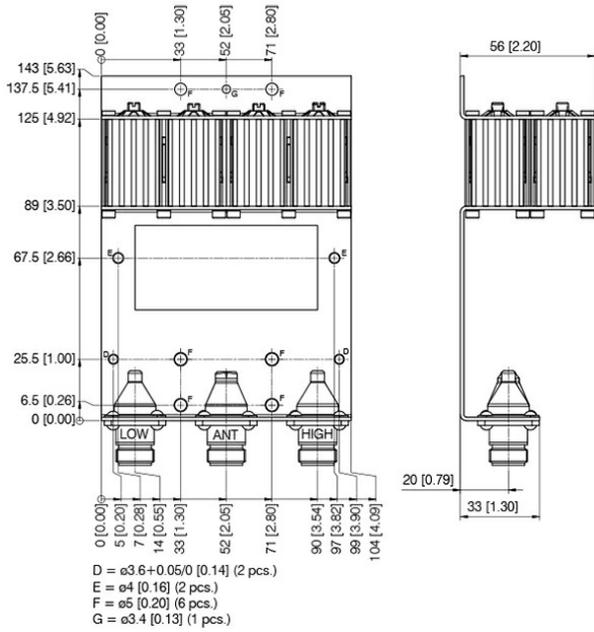
TYPICAL RESPONSE CURVE FOR 406 - 410 MHz



TYPICAL RESPONSE CURVE FOR 415 - 430 MHz



MOUNTING DETAILS



All dimensions are given in mm [in.]

