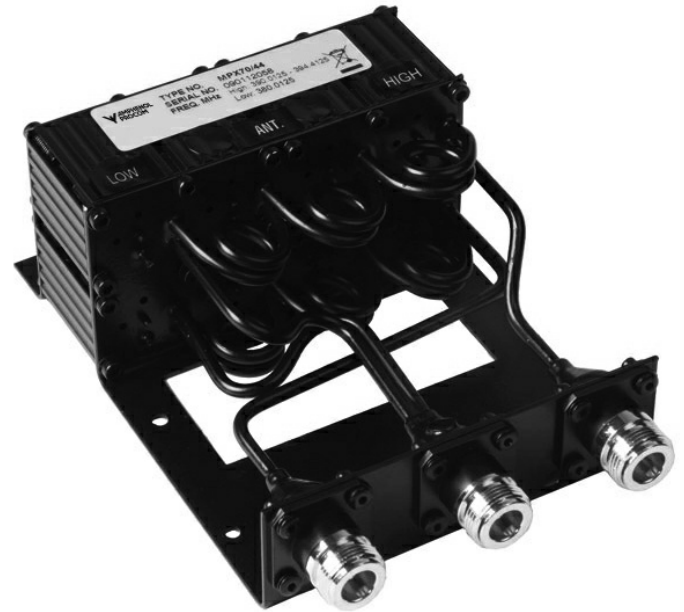


8-Resonator Mini-Duplexer for the TETRA Band

DESCRIPTION

- The MPX 70/44-...-TETRA-N is a 8-resonator miniaturized duplex filter for duplex radiotelephones. This compact "miniduplexer" meets the demand for a modern, space saving, high performance filter type.
- The MPX 70/44-...-TETRA-N models are primarily intended for equipment, where the Tx and Rx operate on several channels, i.e. within a certain port bandwidth, but it can also be used where the Tx and Rx operate on single frequencies with even better performance on insertion loss and attenuation (up to 90 dB).
- The duplexer is available in a variety of different versions depending on duplex spacing, frequency, bandwidth and attenuation.
The MPX 70/44-...-TETRA-N is tunable within 380 - 470 MHz range.
See also "Ordering information".
- 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-...-TETRA-N is coated with black vinyl to prevent corrosion.
- Other models with different frequencies, duplex spacing, bandwidth and attenuation are available on request.



SPECIFICATIONS

Electrical	
Model	MPX 70/44-...-TETRA-N
Frequency	Low : 380 - 395 MHz High : 405 - 430 MHz (depends on model)
Max. Input Power	50 W
Pass Band Insertion Loss	≤ 1.5 dB (typ. 1.0)
Impedance	50 Ω
VSWR	< 1.5:1
Bandwidth	15 MHz
Stop Band Attenuation	≥ 60 dB
Mechanical	
Connection(s)	N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request)
Dimensions	145 (excl. conn.) x 104 x 56 mm / 5.7 (excl. conn.) x 4.1 x 2.2 in.
Weight	Approx. 0.7 kg / 1.54 lb.
Environmental	
Operating temperature range	-30 °C to +60 °C
Frequency Stability	Approx. 4.5 ppm / °C

ORDERING

Model	Product No.	Frequency
MPX 70/44-A-TETRA-N(f)	200002280	Low: 380 - 395 MHz / High: 405 - 420 MHz
MPX 70/44-B-TETRA-N(f)	200002281	Low: 380 - 395 MHz / High: 410 - 425 MHz
MPX 70/44-C-TETRA-N(f)	200002282	Low: 380 - 395 MHz / High: 415 - 430 MHz

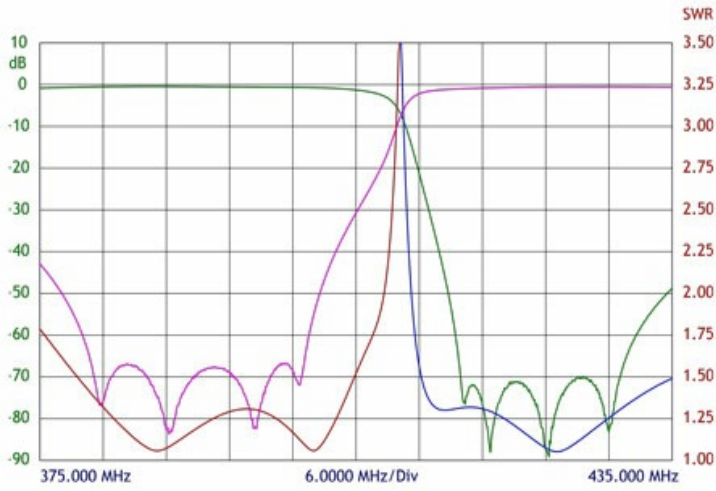
ORDERING INFORMATION

When ordering, please use the table above to select the appropriate ordering designation for the desired filter type. If duplex Tx and Rx frequencies are stated when ordering, the duplexers are delivered factory adjusted.

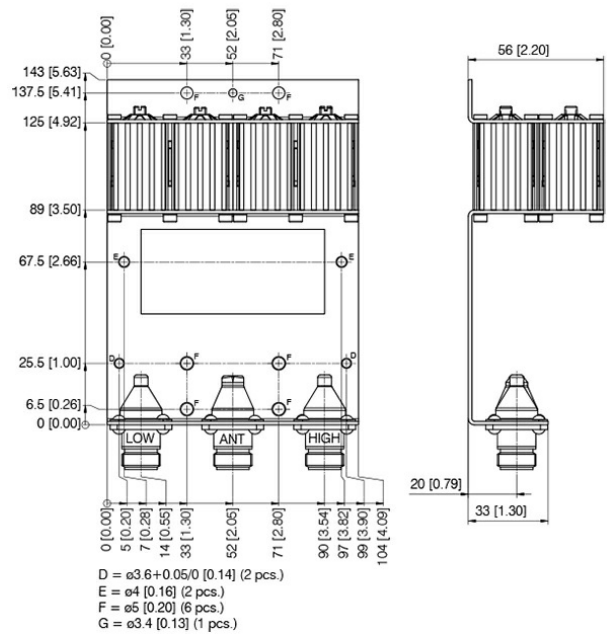
PLEASE NOTE

Special configurations of this filter type may be quoted on request. For instance, the filter can be delivered with other connector types or with flying leads (RG 316 coaxial cable) terminated with connectors or prepared for direct soldering into PCB.

TYPICAL RESPONSE CURVE @ 10 MHz DUPLEX SPACING



MOUNTING DETAILS



All dimensions are given in mm [in.]

