

MPX 70/44-...-TETRA-N

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.
- The filter is black vinyl coated to prevent corrosion.
- Other models with different frequencies, duplex spacing, bandwidth and attenuation are available on request.



ORDERING DESIGNATION

TYPE	PRODUCT NO.	LOW	HIGH
MPX 70/44-A-TETRA-N	200002280	380 - 395	405 - 420
MPX 70/44-B-TETRA-N	200002281	380 - 395	410 - 425
MPX 70/44-C-TETRA-N	200002282	380 - 395	415 - 430

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.

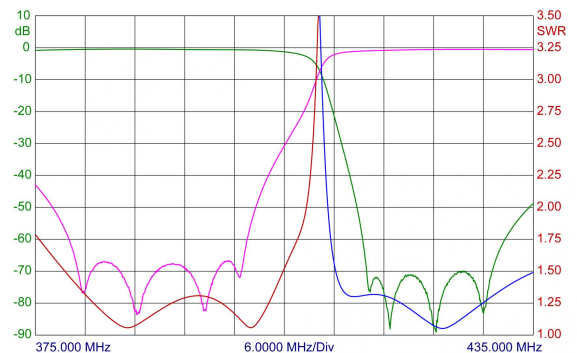
PLEASE NOTE

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.

SPECIFICATIONS

ELECTRICAL	
MODEL	MPX 70/44-...-TETRA-N
MAX. INPUT POWER	50 W
TX/RX-FREQUENCY	See model selection table above
BANDWIDTH	15 MHz
INSERTION LOSS IN PASSBAND	≤ 1.5 dB (typ. 1.0)
ATTENUATION IN STOPBAND	≥ 60 dB
IMPEDANCE	Nom. 50 Ω
SWR (All ports)	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 4.5 ppm/° C
CONNECTORS	N-female
DIMENSIONS (L x W x H)	145 x 104 x 56 mm / 5.7 x 4.1 x 2.2 in.
WEIGHT	Approx. 700 g / 1.5 lb.

TYPICAL RESPONSE CURVES @ 10 MHz DUPLEX SPACING



PROCOM A/S reserve the right to amend specifications without prior notice.

12/01/15