

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 “miniplexer” 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	See model selection table above
Impedance	50 Ω
VSWR	< 1.5:1
Maximum Input Power	50 W
Bandwidth	15 MHz
Frequency Stability	4.5 ppm/° C (approx.)
Mechanical	
Connection(s)	N(f)
Dimensions	145 x 104 x 56 mm / 5.7 x 4.1 x 2.2"
Weight	0.7 kg / 1.54 lb
Environmental	
Operating Temperature Range	-30 °C to +60 °C

ORDERING

Type	Product No.	Description	Frequency
MPX 70/44-A-TETRA-N	200002280	380 - 395 MHz	405 - 420 MHz
MPX 70/44-B-TETRA-N	200002281	380 - 395 MHz	410 - 425 MHz
MPX 70/44-C-TETRA-N	200002282	380 - 395 MHz	415 - 430 MHz

ADDITIONAL DATA

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.

DIAGRAM

TYPICAL RESPONSE CURVES @ 10 MHz
DUPLEX SPACING

