



Filters & Duplexer

The highest quality and performance filter system

TETRA ■■■

- PERFORMING
- RELIABLE
- COMPACT
- CUSTOM PRODUCT
- DUPLEXER tuning in the range frequency
380-460 Mhz (RX BW)
390-470 Mhz (TX BW)
- High power handling (up to 4 x 50 watt TETRA modulated carrier)
- Peak power handling up to 6 Kw (worst case with antenna mismatched for all phase carrier)



ELECTRICAL SPECIFICATION

TX PATH

Frequency range tunable by the supplier in all the band from 390 to 470 MHz

Instantaneous TX band 5 MHz

Insertion Loss Tx to Antenna 1.3 dB max

Return Loss Tx port 18 dB min

Return Loss Antenna port 18 dB min

Isolation

Tx Isolation at Rx frequency 78 dB min

From 530 MHz to 4 GHz in Tx filter 30 dB min

RX PATH

Frequency range from 380 to 460 MHz

Instantaneous RX band 5 MHz

Insertion Loss Antenna to Rx 1.3 dB max

Return Loss Rx port 18 dB min

Return Loss Antenna port 18 dB min

Isolation

Rx Isolation at Tx frequency 78 dB min

From 530 MHz to 4 GHz in Rx filter 30 dB min

Impedance 50 Ohm

Input power 200 Watts

Tx Peak Power Combination of four 50W

TETRA modulated carriers

Intermodulation in RX band @ ANT port ≤ -85 dBm

(with 47 dBm for each carrier)

MECHANICAL SPECIFICATION

Antenna Connector N female

Tx Connector N female

Rx Connector SMA female

Weight 11,6 kg

Dimensions 482,6x239x132,5 mm max

OPERATING TEMPERATURE RANGE

-10°C to +70°C

STORAGE TEMPERATURE RANGE

-40°C to +85°C

PROTECTION IP (INDOOR/OUTDOOR)

Indoor

M.T. S.r.l.

Via G. Galilei, 12

20060 - Pessano con Bornago

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