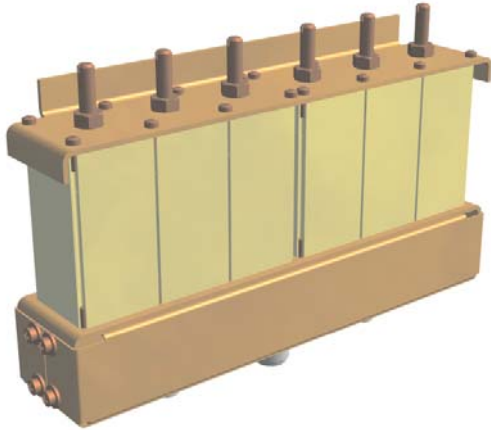




HelicalDuplexers

HDF386.Q34



The helical duplexer HDF386.Q34 is a symmetrical duplexer made of six High Q helical resonators in a Band-reject configuration. The duplexer is designed for the operation of the transmitter and receiver together in to one antenna in bands of 380-430 MHz.

Its mechanical construction make the use even in base or in mobile radiostations possible.

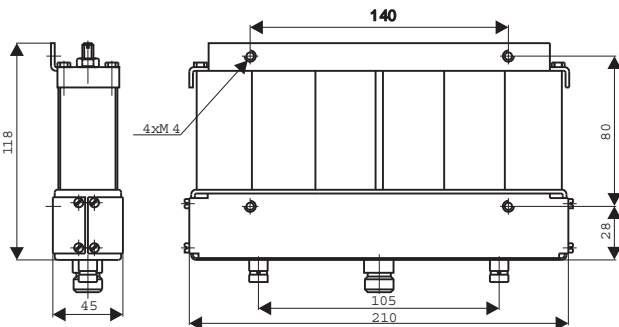
This configuration provides 75 dB of transmitter-to-receiver isolation, and low insertion loss permits power handling up to 50 watts.

When ordering, specify exact frequencies and connector type required (N or BNC).

Orderexample:

HDF386.Q34 385.15 / 395.65 / 0.5 / BNB
LOW freq.[MHz] HIGH freq.[MHz] Bandwidth[MHz] Connectors

N....N Type
B....BNC Type
T....TNC Type



ELECTRICAL PARAMETERS

| | | | | |
|----------------------------------|----------------------------------|-----|-----|--|
| Frequency range [MHz] | 380-430 | | | |
| Frequency separation [MHz] | 7.0-15 | | | |
| Operated Bandwidth [MHz] | 0.5 | 1.0 | 1.5 | |
| Max.insertion loss [dB] | 1.3 | 1.5 | 1.7 | |
| Typ. Insertion loss [dB] | 1.1 | 1.3 | 1.5 | |
| Isolation LOW-ANT [dB] | 85 | 80 | 75 | |
| Isolation HIGH-ANT [dB] | 85 | 80 | 75 | |
| Isolation LOW-HIGH [dB] | 85 | 80 | 75 | |
| VSWR | <1.3 | | | |
| Input and Output impedance [Ohm] | 50 | | | |
| Max. Input power [W] | 50W (-30 +60°C) / 35 (-30 +70°C) | | | |

MECHANICAL PARAMETERS

| | |
|----------------------|---|
| Connection | ANT-N female, LOW (HIGH) - BNC female, TNC female, N female |
| Mouting holes | 4xM4 |
| Dimension HxWxL [mm] | 45x210x118 |
| Weight [kg] | 1.1 |