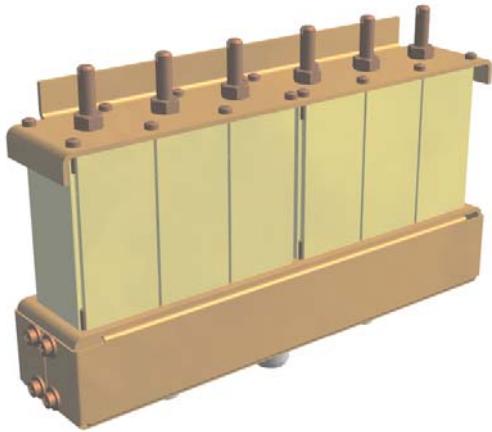




Helical Duplexers

HDF306.Q34



The helical duplexer HDF306.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 300-360 MHz.

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

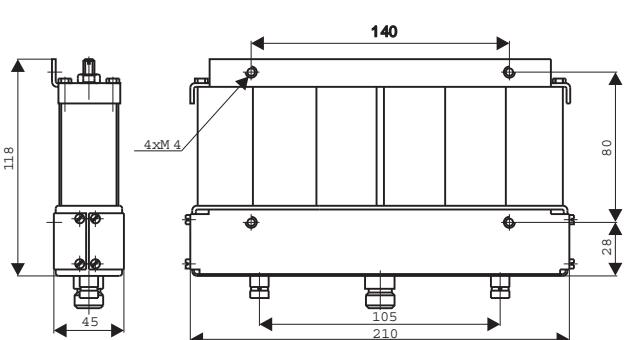
This configuration provides 75 dB of transmitter-to-receiver isolation, and low insertion loss permits power handling up to 50 watts.

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

Order example:

HDF306.Q34 300.15 / 336.65 / 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]	300-360		
Frequency separation [MHz]	30-40		
Operated Bandwidth [MHz]	1.0	2.0	5.0
Max.insertion loss [dB]	1.0	1.0	1.0
Typ. Insertion loss [dB]	0.8	0.8	0.9
Isolation LOW-ANT [dB]	95	90	80
Isolation HIGH-ANT [dB]	95	90	80
Isolation LOW-HIGH [dB]	95	90	80
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