



156-172 MHz Mobile duplexers MDF- 6VH4.5/6, MDF-6VH6/8, MDF-6VH8/10, MDF-6VH-15

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Electrical specifications

Model	MDF-6VH4.5/6	MDF-6VH6/8	MDF-6VH8/10	MDF-6VH-15
Operating Frequency band, MHz	156-172	156-172	156-172	147-168
Insertion loss (adjustable) not more, dB	1.3	1.3	1.3	1.3
Frequency separation TX/RX (min), MHz	4.5-6	6-8	8-10	15
Impedance, Ohm	50	50	50	50
Isolation, not less, dB	80	80	80	80
Typical isolation, dB	90	90	90	90
VSWR, not more than	1.5	1.5	1.5	1.5
Input power, not more than, W	50	50	50	50
Temperature Range, °C	from -30 to +50	from -30 to +50	from -30 to +50	from -30 to +50

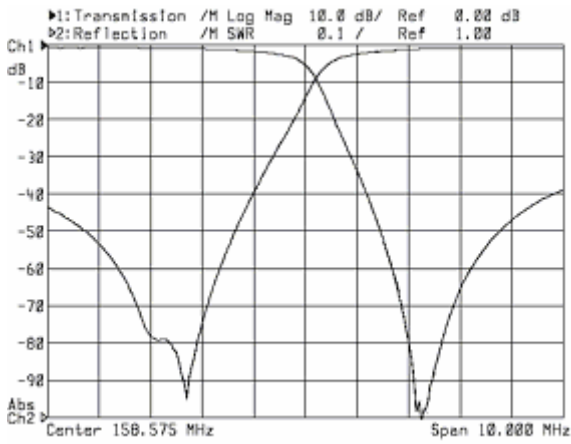
Mechanical specifications

Model	MDF-6VH4.5/6	MDF-6VH6/8	MDF-6VH8/10	MDF-6VH-15
Weight, kg	0,885	0,885	0,885	0,885
Connector	N-female	N-female	N-female	N-female
Length/Width/Depth, mm	210x156x32	210x156x32	210x156x32	210x156x32

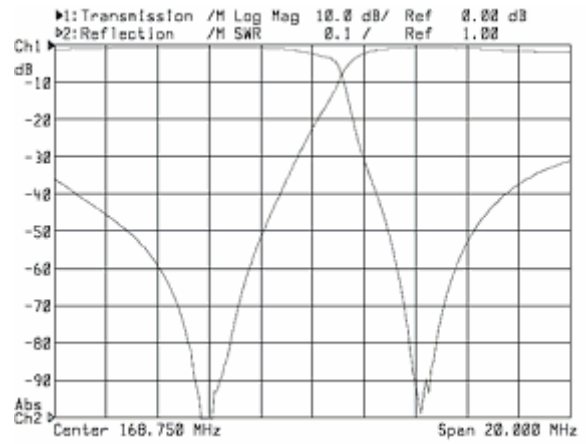
Availability of full duplex mobile radio stations on the market has initiated strong interest in duplex filters providing simultaneous operation of mobile station into common antenna. We are producing such devices now. These are mobile duplex filters MDF-6V and MDF-6VM for VHF range applicable to telecommunications networks operating in 148/172 MHz frequency range. Compact mobile duplexers are manufactured using six-section helical resonators by rejection design. At frequency separation of 4-6 MHz (MDF-6VH4.5/6), 6-8 MHz (MDF-6VH6/8), 8-10 MHz (MDF-6VH8/10) and 15 MHz (MDF-6VH-15) they provide full duplex operation mode of mobile radio stations at minimum loss and standard power output of 50 Watt. Dimensions of MDF-6V duplexer allow its mounting into the same case with radio station. However, one should notice, that such duplexers are ineffective, when implemented in base stations or at the sites with compromised electromagnetic compatibility.

Typical duplexers response curves

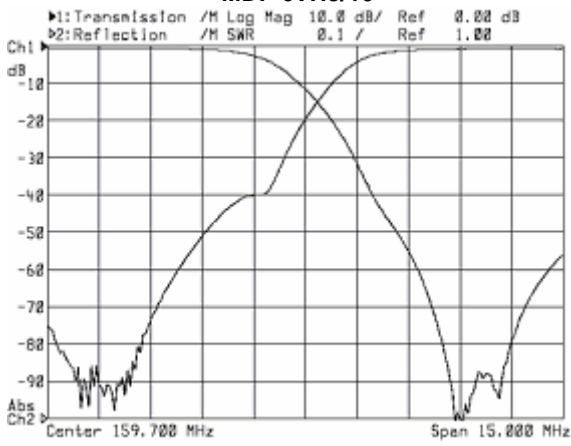
MDF-6VH4.5/6



MDF-6VH6/8



MDF-6VH8/10



MDF-6VH-15

