



400-490 MHz Mobile duplexers MDF-6U



Electrical specifications

Model	MDF-6UL5/8	MDF-6UL8/13	MDF-6UM8/13
Operating Frequency band, MHz	400-430	400-430	440-470
Insertion loss (adjustable) not more, dB	1,3	1.3	1.3
Frequency separation TX/RX (min), MHz	5-8	8-13	8-13
Impedance, Ohm		50	
Isolation, not less, dB		75	
VSWR, not more than		1,5	
Input power, not more, W		not more than 50	
Temperature Range, °C		from -30 to +50	

Mechanical specifications

Model	MDF-6UL5/8	MDF-6UL8/13	MDF-6UM8/13
Weight, kg	0,62	0.62	0.62
Connector		N-female	
Length/Width/Depth, mm		170x160x40	

Strong interest in duplex filters, providing simultaneous operation of mobile station with one antenna, was initiated by availability of full-duplex mobile radio stations on domestic market. We have designed and begin to manufacture such devices: mobile duplex filter MDF-6V and MDF-6U, recently. Compact mobile duplexers are manufactured using six-section helical resonators and rejection circuit. Having frequency separation 5-8 MHz (MDF-6U5/8) and 8-13 MHz (MDF-6U8/13), they provide mobile radio stations full duplex operation mode at minimum loss and 50 watt standard power output. Duplexer MDF-6U dimensions enable to mount it in the same case with radio station. However, one should notice, that such duplexers are ineffective, when implemented in base stations or in locations with compromised electromagnetic compatibility.

Typical duplexers response curves

MDF-6UL8/13

