

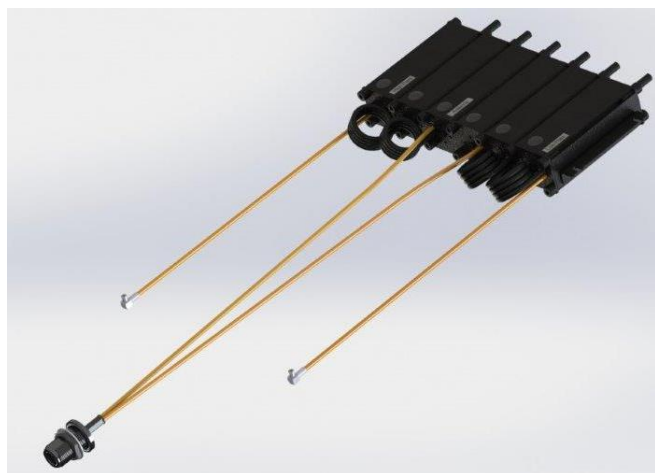
DUPLEXERS

MINIATURE COMPACT DUPLEXERS

MINIATURE COMPACT BAND-REJECT DUPLEXERS

MDHPRF1X01-61-FL series duplexers advantages:

- Compact dimensions.
- Up to 50 W continuous input power.



Miniature compact MDHPRF1X01-61-FL series duplexers is meant to provide frequency isolation between transmitting and receiving channels of duplex 150 MHz band radiotelephone systems. Combining small geometry with low loss and close frequency spacing advantages and with selective pass characteristics this duplexer is ideal for use in systems with low-to-medium power repeaters where small physical dimensions of equipment are critical.

MDHPRF1X01-61-FL series duplexers utilizes six high-Q notch-type helical resonators with 1"-cross-section that results in small geometry advantages without compromising duplex isolation. Due to right material choice and temperature compensated design temperature stability has been achieved.

Each duplexer is tunable within the operating frequency subband.

Specifications

Electrical	MDHPRF1301-61-FL	MDHPRF1401-61-FL	MDHPRF1601-61-FL
Frequency band, MHz	136-154	146-164	160-174
Typical Tx to Rx split, MHz	5	5	5
Max. input power, W	50	50	50
Insertion loss, dB	1.5	1.5	1.5
Isolation, dB	> 75	> 75	> 75
Impedance, Ohms	50	50	50
Return loss (VSWR)	> 18 (< 1.3)	> 18 (< 1.3)	> 18 (< 1.3)
Mechanical			
Connectors	Low, High: MCX-Male Antenna: N-female	Low, High: MCX-Male Antenna: N-female	Low, High: MCX-Male Antenna: N-female
Temperature range, °C	-30°...+60°	-30°...+60°	-30°...+60°
Dimensions (excluding flying leads) (L x W x H), mm	138x190x30	138x190x30	138x190x30
Weight, kg	0.75	0.75	0.75

In the effort to improve our products, we reserve the right to make changes judged to be necessary.