

## 6-cavity Mobile or Base Station Duplexer for the 136 - 175 MHz Band

### DESCRIPTION

- The DPF 2/6-HX-150 is a six-cavity high-power mobile or base station duplexer for the 136 - 175 MHz band.
- This type of filter uses six large 40 x 40 mm cavities, all equipped with 3.5 mm silver-plated helical resonators, diameter 19 mm.
- The use of large cavities and resonators means higher Q, resulting in smaller duplex spacing with lower loss.
- The larger dimensions extend power rating to 100 W continuous.
- The DPF 2/6-HX-150 is designed for single-channel equipment, but can, with slightly reduced specification, be broadband-adjusted to allow multichannel equipment to be used.
- The cavities are made of extruded aluminium, the chassis of passivated steel. All coaxial cables are of the semi-rigid type, and teflon has been used in all connectors and cables.
- The filter is black vinyl coated to prevent corrosion.
- Please specify the frequencies for Tx and Rx when ordering, as all filters are made individually.



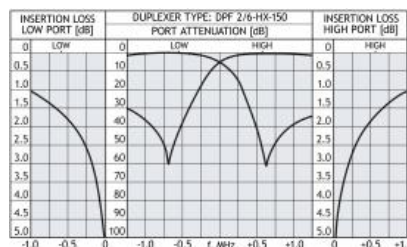
### SPECIFICATIONS

Electrical	
Model	DPF 2/6-HX-150
Frequency	136 - 175 MHz
Max. Input Power	100 W @ 1 dB insertion loss
Min. Duplex Spacing	1.3 MHz
Insertion Loss	@ 1.3 MHz spacing: 1.5 dB @ 2.0 MHz spacing: 1.2 dB @ 3.0 MHz spacing: 1.0 dB
Impedance	50 Ω
Tx Noise Suppression on Rx-Freq. / Rx Isolation on Tx-Freq.	@ 1.3 MHz spacing: 60 dB @ 2.0 MHz spacing: 85 dB @ 3.0 MHz spacing: 100 dB
VSWR	< 1.5:1
Mechanical	
Connection(s)	N(f)
Dimensions	185 x 250 x 50 mm / 7.30 x 9.84 x 1.97 in.
Weight	Approx. 2.1 kg / 4.63 lb.
Environmental	
Operating temperature range	-30 °C to +60 °C
Frequency Stability	Approx. 8 ppm / °C

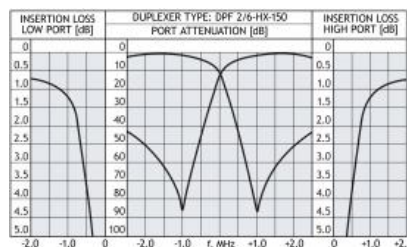
### ORDERING

Model	Product No.
DPF 2/6-HX-150	200000220

### TYPICAL RESPONSE CURVE @ 1.3 MHz DUPLEX SPACING



### TYPICAL RESPONSE CURVE @ 2 MHz DUPLEX SPACING



### TYPICAL RESPONSE CURVE @ 3 MHz DUPLEX SPACING

