

# DPF 4/6-HX-150

## 6-cavity Mobile or Base Station Duplexer for the 68-88 MHz Band



### DESCRIPTION:

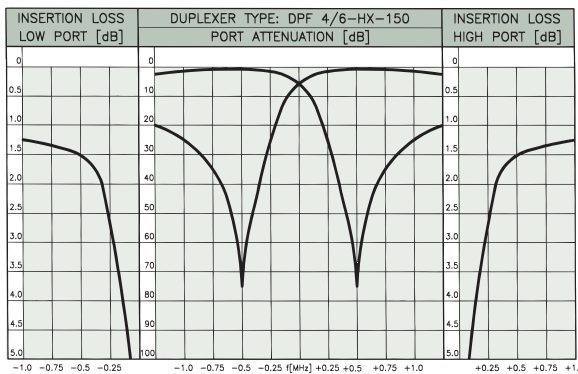
- ★ The DPF 4/6-HX-150 is a six-cavity high-power mobile or base station duplexer for the 68-88 MHz band.
- ★ This type of filter uses six large 40 x 40 mm cavities, all equipped with 3.5 mm silver-plated helical resonators, 19 mm diameter.
- ★ The use of large cavities and resonators means higher Q, resulting in smaller duplex spacing with lower loss.
- ★ The larger dimensions extend power rating to 100 W continuous.
- ★ The DPF 4/6-HX-150 is designed for single-channel equipment, but can, with slightly reduced data, 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:

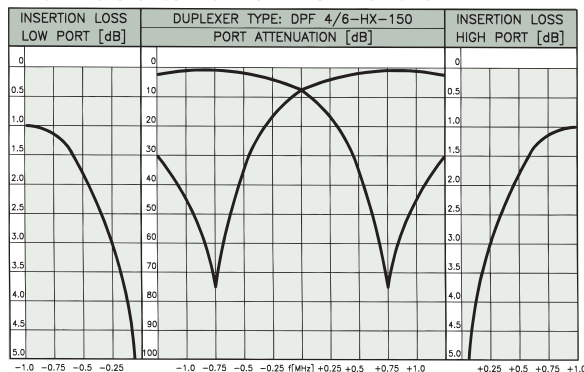
ELECTRICAL	
TX/RX FREQUENCY	68-88 MHz (88-112 MHz)
MAX. INPUT POWER	100 watt at 1 dB insertion loss
MIN. DUPLEX SPACING	800 kHz
TYPICAL INSERTION LOSS	@ 1.0 MHz spacing: 1.5 dB @ 1.5 MHz spacing: 1.2 dB @ 3.0 MHz spacing: 1.0 dB
TX NOISE SUPPRESSION ON RX-FREQUENCY AND RX ISOLATION ON TX-FREQUENCY	@ 1.0 MHz spacing: 70 dB @ 1.5 MHz spacing: 80 dB @ 3.0 MHz spacing: 100 dB
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C i +60° C
FREQ. STABILITY	Approx. 8 ppm/° C
CONNECTORS	N-female
DIMENSIONS (L x W x H)	210 x 250 x 50 mm
WEIGHT	Approx. 2.5 kg



TYPICAL RESPONSE CURVES @ 1 MHz DUPLEX SPACING:



TYPICAL RESPONSE CURVES @ 1.5 MHz DUPLEX SPACING:



TYPICAL RESPONSE CURVES @ 3 MHz DUPLEX SPACING:

