

# DPF 2/6-HX-150

## 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.



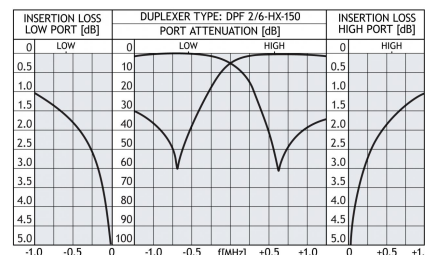
### ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
DPF 2/6-HX-150	200000220

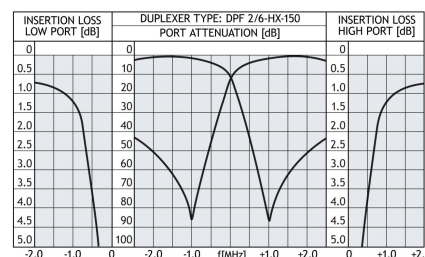
### SPECIFICATIONS

ELECTRICAL	
MODEL	DPF 2/6-HX-150
TX/RX FREQUENCY	136 - 175 MHz
MAX. INPUT POWER	100 W @ 1 dB insertion loss
MIN. DUPLEX SPACING	1.3 MHz
TYPICAL INSERTION LOSS	@ 1.3 MHz spacing: 1.5 dB @ 2.0 MHz spacing: 1.2 dB @ 3.0 MHz spacing: 1.0 dB
TX NOISE SUPPRESSION ON RX-FREQUENCY AND RX ISOLATION ON TX-FREQUENCY	@ 1.3 MHz spacing: 60 dB @ 2.0 MHz spacing: 85 dB @ 3.0 MHz spacing: 100 dB
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 8 ppm/° C
CONNECTORS	N-female
DIMENSIONS (L x W x H)	185 x 250 x 50 mm
WEIGHT	Approx. 2.1 kg

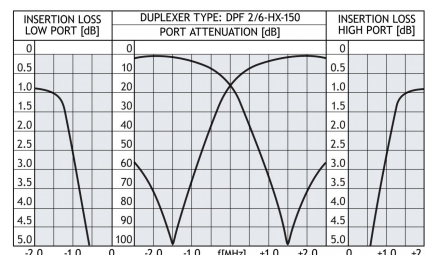
### TYPICAL RESPONSE CURVES @ 1.3 MHz DUPLEX SPACING



### TYPICAL RESPONSE CURVES @ 2 MHz DUPLEX SPACING



### TYPICAL RESPONSE CURVES 3 MHz DUPLEX SPACING



PROCOM A/S reserve the right to amend specifications without prior notice.

14/02/11