

# DPF 6/6-HX-150

## 6-cavity Mobile or Base Station Duplexer for the 45-68 MHz Band



### DESCRIPTION:

- ★ The DPF 6/6-HX-150 is a six-cavity high-power mobile or base station duplexer for the 45-68 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 6/6-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	
MODEL	DPF 6/6-HX-150
TX/RX FREQUENCY	45-68 MHz
MAX. INPUT POWER	100 watts @ 1 dB insertion loss
MIN. DUPLEX SPACING	700 kHz
TYPICAL INSERTION LOSS	@ 700 kHz spacing: 1.5 dB @ 1.0 MHz spacing: 1.2 dB @ 1.5 MHz spacing: 1.0 dB
TX NOISE SUPPRESSION ON RX-FREQUENCY AND RX ISOLATION ON TX-FREQUENCY	@ 700 kHz spacing: 85 dB @ 1.0 MHz spacing: 90 dB @ 1.5 MHz spacing: 95 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)	270 x 250 x 50 mm
WEIGHT	Approx. 2.5 kg

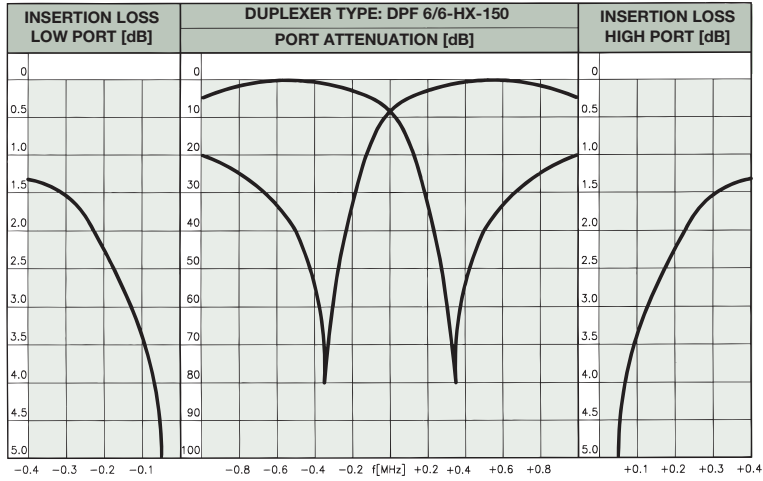
PROCOM A/S reserve the right to amend specifications without prior notice.

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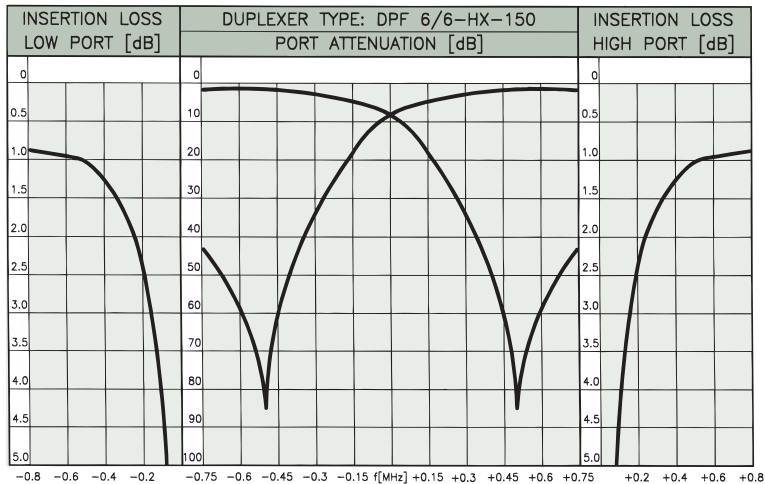
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Duplexer for the 45-68 MHz Band*



**TYPICAL RESPONSE CURVES @ 0.7 MHz DUPLEX SPACING:**



**TYPICAL RESPONSE CURVES @ 1 MHz DUPLEX SPACING:**



**TYPICAL RESPONSE CURVES @ 1.5 MHz DUPLEX SPACING:**

