# AMPHENOL PROCOM

# 6-cavity Mobile or Base Station Duplexer for the 112 - 136 MHz Band

#### DESCRIPTION

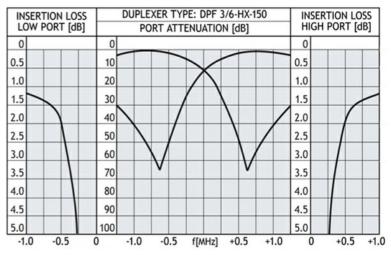
- The DPF 3/6-HX-150 is a six-cavity high-power mobile or base station duplexer for the 112 - 136 MHz band.
- This type of filter uses six large 40 x 40 mm cavities, all equipped with 3.5 mm silver-plated helical resonators, diameter 19 mm.
- The use of large cavities and resonators means higher Q, resulting in smaller duplex spacing with lower loss.
- The larger dimensions extend power rating to 100 W continuous.
- The DPF 3/6-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

Model	Product No.
DPF 3/6-HX-150	200000249

#### TYPICAL RESPONSE CURVE @ 1.3 MHZ DUPLEX SPACING

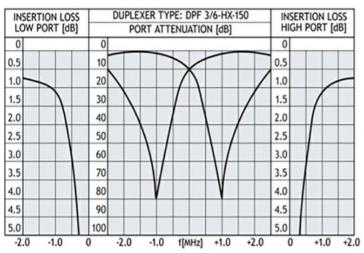


## SPECIFICATIONS

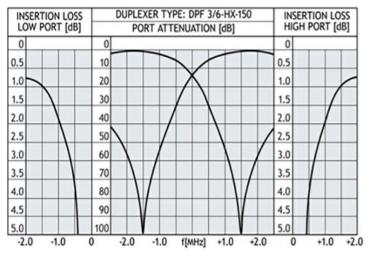
Electrical		
Model	DPF 3/6-HX-150	
Frequency	112 - 136 MHz	
Max. Input Power	100 W @ 1 dB insertion loss	
Min. Duplex Spacing	1 MHz	
Insertion Loss	@ 1.3 MHz spacing : 1.5 dB @ 2.0 MHz spacing : 1.2 dB @ 3.0 MHz spacing : 1.0 dB	
Impedance	50 Ω	
Tx Noise Suppression on Rx-Freq. / Rx Isolation on Tx-Freq.	@ 1.3 MHz spacing : 65 dB @ 2.0 MHz spacing : 80 dB @ 3.0 MHz spacing: 100 dB	
VSWR	< 1.5:1	
Mechanical		
Connection(s)	N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request)	
Dimensions	185 x 250 x 50 mm / 7.28 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	



#### TYPICAL RESPONSE CURVE @ 2 MHZ DUPLEX SPACING



## TYPICAL RESPONSE CURVE @ 3 MHZ DUPLEX SPACING



X

