

6-Cavity Duplexer for the 160 MHz Band

DESCRIPTION

- > The DPF 2/6... is a 6-cavity duplex filter for duplex radiotelephones.
- This duplexer is delivered in a low band version type DPF 2/6 L, tunable within 138 - 156 MHz and a high band version type DPF 2/6 H, tunable within 152 - 175 MHz. These models are again delivered in 3 submodels, each dedicated to work with a certain duplex spacing. See "Ordering information" below.
- The DPF 2/6... models are primarily intended for equipment, where the Tx and Rx operate on single frequencies, but they can also, however with slightly reduced data, be used where the Tx and Rx operate on several channels, i.e. within a certain port bandwidth. In the last case, factory-tuning is recommended.
- > The filter has very small physical dimensions owing to the use of high-Q, temperature compensated helical resonators.
- > The housing is made of extruded aluminium, the chassis of passivated steel, and teflon insulation has been applied in the rigid coaxial cables and in the connectors.
- The filter is coated with black vinyl to prevent corrosion.



SPECIFICATIONS

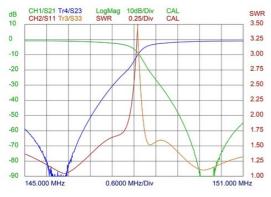
Electrical				
Model		DPF 2/6		
Frequency		DPF 2/6 L : 138 - 156 MHz DPF 2/6 H : 152 - 175 MHz		
Max. Input Power		50 W		
Special spec. info		Single-channel tuned :		Multi-channel tuned, BW = 1.5 MHz :
Insertion Loss Tx-Ant and Ant-Rx		< 1.2 dB (typ. 1.0 dB)		< 1.2 dB (typ. 1.0 dB)
Tx Noise Suppression on Rx Frequency		> 80 dB		> 60 dB
Isolation Rx on Frequency Tx		> 80 dB		> 60 dB
Impedance		50 Ω		
Duplex Spacing		4 - 10 MHz (adjustable)		
VSWR		< 1.5:1		
Mechanical Connection(s) Dimensions Weight Environmental Operating temperature range		N(f) (BNC(f), TNC(f), UHF(f), SMA(f) on request) Approx. 211 x 154 x 33 mm / 8.31 x 6.06 x 1.30 in. Approx. 0.94 kg / 2.07 lb. -30 °C to +60 °C		
Frequency Stability		Approx. 5 ppm / °C		
ORDERING				
Model	Product No.		Description	Frequency
DPF 2/6 L-4/6-N(f)	200000130		SPACING: 4 - 6 MHz	138 - 156 MHz
DPF 2/6 L-6/8-N(f)	200000136		SPACING: 6 - 8 MHz	138 - 156 MHz
DPF 2/6 L-8/10-N(f)	200000141		SPACING: 8 - 10 MHz	138 - 156 MHz
DPF 2/6 H-4/6-N(f)	200000100		SPACING: 4 - 6 MHz	152 - 175 MHz
DPF 2/6 H-6/8-N(f)	200000108		SPACING: 6 - 8 MHz	152 - 175 MHz
DPF 2/6 H-8/10-N(f)	200000113		SPACING: 8 - 10 MHz	152 - 175 MHz

 DPF 2/6 H-13/20-N(f)
 200000123
 SPACING: 13 - 20 MHz
 152 - 175 MHz

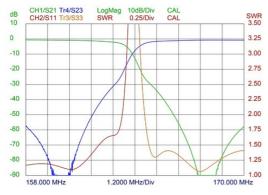
 Accessories
 19" DPF Mounting kit
 210002327
 East



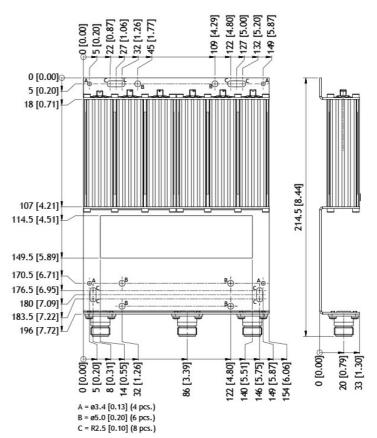
TYPICAL RESPONSE CURVES @ 4 MHZ DUPLEX SPACING



TYPICAL RESPONSE CURVES @ 8 MHZ DUPLEX SPACING



MOUNTING DETAILS



All dimensions are given in mm.



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