

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

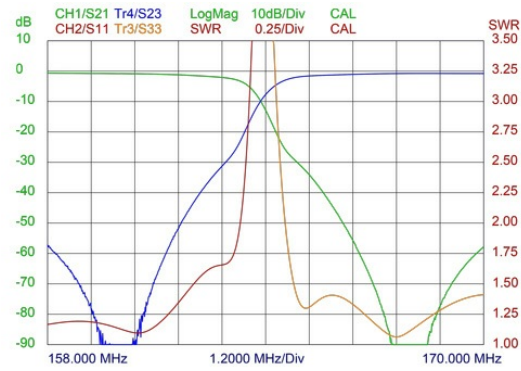
Electrical		
Model	DPF 2/6...	
Frequency	DPF 2/6 L : 138 - 156 MHz DPF 2/6 H : 152 - 175 MHz	
Max. Input Power	50 W	
Special spec. info	Single-channel tuned :	Multi-channel tuned, BW = 1.5 MHz :
Insertion Loss Tx-Ant and Ant-Rx	< 1.2 dB (typ. 1.0 dB)	< 1.2 dB (typ. 1.0 dB)
Tx Noise Suppression on Rx 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)	N(f) (BNC(f), TNC(f), UHF(f), SMA(f) on request)	
Dimensions	Approx. 211 x 154 x 33 mm / 8.31 x 6.06 x 1.30 in.	
Weight	Approx. 0.94 kg / 2.07 lb.	
Environmental		
Operating temperature range	-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		

MOUNTING

TYPICAL RESPONSE CURVES @ 8 MHZ DUPLEX SPACING



TYPICAL RESPONSE CURVES @ 4 MHZ DUPLEX SPACING

