6-Cavity base station duplexers for the 450 MHz band

DESCRIPTION

- 150 W base station duplexers.
- Both the ¼ λ models and the ¾ λ models are continuously tunable from 406 MHz to 470 MHz.
- Low insertion loss due to silver-plated, temperature compensated resonator elements in high-Q 40 x 40 mm cavities.
- Single channel tuned as standard.
- Multi-channel tuning possible with slightly reduced data (factory tuning recommended).
- Fully environmentally tested.

DPF 70/6-150 cavity type ¼ λ

DPF 70/6-150 cavity type ¾ λ

SPECIFICATIONS

Electrical				
Model	DPF 70/6-150-... ¾ λ		DPF 70/6-150-... ¼ λ	
Cavity Type	¾ λ		¼ λ	
Frequency	406 - 470 MHz		406 - 470 MHz	
Max. Input Power	150 W		150 W	
Special spec. info	Single-channel tuned. Spacing = 2 MHz, P ≤ 100 W	Single-channel tuned. Spacing = 3.5 MHz, P ≤ 100 W	Single-channel tuned. Spacing = 5 MHz, P ≤ 150 W	Multi-channel tuned. Spacing = 5 MHz, BW Tx and Rx = 2 MHz, P ≤ 100 W
Insertion Loss Tx-Ant and Ant-Rx	≤ 1.4 dB	≤ 1.3 dB	≤ 1.2 dB	≤ 1.4 dB
Tx-Noise Suppression on Rx-Frequency	> 70 dB	> 80 dB	> 80 dB	> 60 dB
Rx-Isolation on Tx-Frequency	> 70 dB	> 80 dB	> 80 dB	> 60 dB
Impedance	50 Ω		50 Ω	
Duplex Spacing	2 - 3 MHz		3 - 5 MHz	
VSWR	< 1.5:1		< 1.5:1	

Mechanical				
Connection(s)	N(f)		N(f)	
Colour	Black		Black	
Dimensions	Approx. 557 x 250 x 50 mm / 21.93 x 9.84 x 1.97 in.		Approx. 238 x 250 x 50 mm / 9.37 x 9.84 x 1.97 in.	
Weight	Approx. 4.6 kg / 10.14 lb.		Approx. 2.5 kg / 5.51 lb.	

Environmental				
Operating Temperature Range	-30°C to +60°C		-30°C to +60°C	
Frequency Stability	4.5 ppm/° C (approx.)		4.5 ppm/° C (approx.)	

ORDERING

Model	Product No.	Description	Frequency
DPF 70/6-150-2/3	200000369	CAVITY TYPE: 1/4 λ	2 - 3 MHz
DPF 70/6-150-3/5	200001617	CAVITY TYPE: 1/4 λ	3 - 5 MHz
DPF 70/6-150-5/7	200001610	CAVITY TYPE: 1/4 λ	5 - 7 MHz
DPF 70/6-150-7/9	200001615	CAVITY TYPE: 1/4 λ	7 - 9 MHz
DPF 70/6-150-9/11	200001612	CAVITY TYPE: 1/4 λ	9 - 11 MHz
DPF 70/6-150-11/13	200001872	CAVITY TYPE: 1/4 λ	11 - 13 MHz
DPF 70/6-150-13/15	200001873	CAVITY TYPE: 1/4 λ	13 - 15 MHz
DPF 70/6-150-2/3-¾ λ	200001689	CAVITY TYPE: 3/4 λ	2 - 3 MHz
DPF 70/6-150-3/5-¾ λ	200002062	CAVITY TYPE: 3/4 λ	3 - 5 MHz

Typical VSWR curve