

DPF 70/6-150...

6-Cavity Base Station Duplexers for the 450 MHz-Band



DESCRIPTION:

- ★ 150 W base station duplexers.
- ★ Choose model DPF 70/6-150-2/3 for duplex spacings between 2 and 3 MHz.
- ★ Choose model DPF 70/6-150-3/5 for duplex spacings between 3 and 5 MHz.
- ★ Both models continuously tunable from 406 to 470 MHz.
- ★ Both models can also be ordered with 5-7, 7-9, 9-11, 11-13 and 13-15 MHz spacing.
- ★ Low insertion loss due to silver-plated, temperature compensated resonator elements in high-Q 40 x 40 mm cavities.
- ★ Multi-channel tuning possible with slightly reduced data (factory tuning recommended).
- ★ Fully environmentally tested.

DPF 70/6-150-2/3



DPF 70/6-150-3/5



SPECIFICATIONS:

ELECTRICAL				
MODEL	DPF 70/6-150-2/3		DPF 70/6-150-3/5	
CAVITY TYPE	3/4 λ		1/4 λ	
TX/RX FREQUENCY	406-470 MHz			
MAX. INPUT POWER	150 watts			
TUNING	Single-channel tuned. Spacing = 2 MHz.	Single-channel tuned. Spacing = 3.5 MHz.	Single-channel tuned. Spacing = 5 MHz.	Multi-channel tuned. Spacing = 5 MHz. Port width = 2 MHz.
INSERTION LOSS TX Ψ ANT. AND ANT. Ψ RX	≤ 1.4 dB	≤ 1.3 dB	≤ 1.2 dB	≤ 1.4 dB
TX-NOISE SUPP. ON RX-FREQUENCY	> 70 dB	> 80 dB	> 80 dB	> 60 dB
RX-ISOLATION ON TX-FREQUENCY	> 70 dB	> 80 dB	> 80 dB	> 60 dB
DUPLEX SPACING	2-3 MHz		3-5 MHz	
IMPEDANCE	Nom. 50 Ω			
SWR	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
MECHANICAL				
TEMP. RANGE	$-30^{\circ}\text{C} \rightarrow +60^{\circ}\text{C}$			
FREQ. STABILITY	Approx. 4.5 ppm/ $^{\circ}\text{C}$			
CONNECTOR TYPE	N-female			
COLOUR	Black			
DIMENSIONS (L x W x H)	585 x 250 x 50 mm		260 x 250 x 50 mm	
WEIGHT	Approx. 4.6 kg		Approx. 2.5 kg	

MODEL SELECTION TABLE:

TUNING RANGE (MHz)	DUPLEX SPACING (MHz)	ORDERING DESIGNATION
406-470	2-3	DPF 70/6-150-2/3
	3-5	DPF 70/6-150-3/5
	5-7	DPF 70/6-150-5/7
	7-9	DPF 70/6-150-7/9
	9-11	DPF 70/6-150-9/11
	11-13	DPF 70/6-150-11/13
	13-15	DPF 70/6-150-13/15

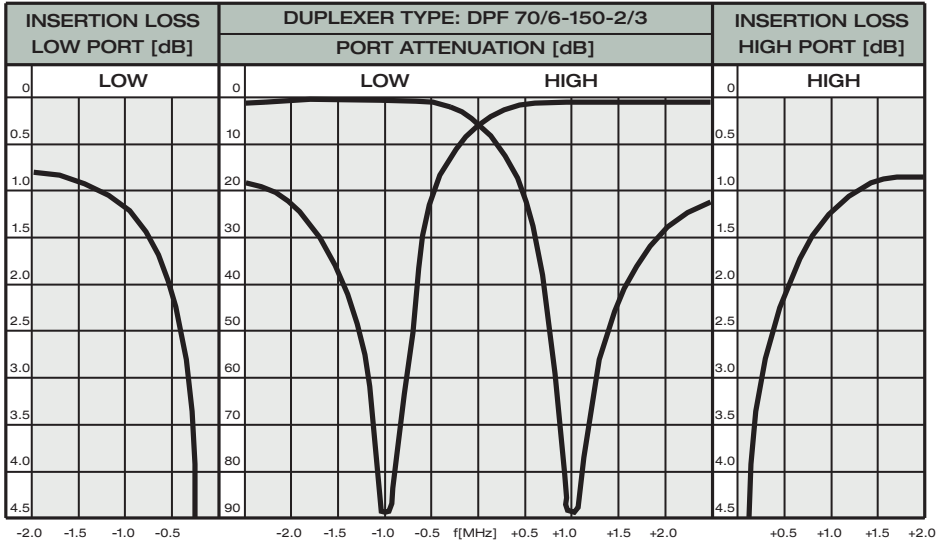
PROCOM A/S reserve the right to amend specifications without prior notice.

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TYPICAL RESPONSE CURVES SPACING = 2 MHz



TYPICAL RESPONSE CURVES SPACING = 5 MHz

