

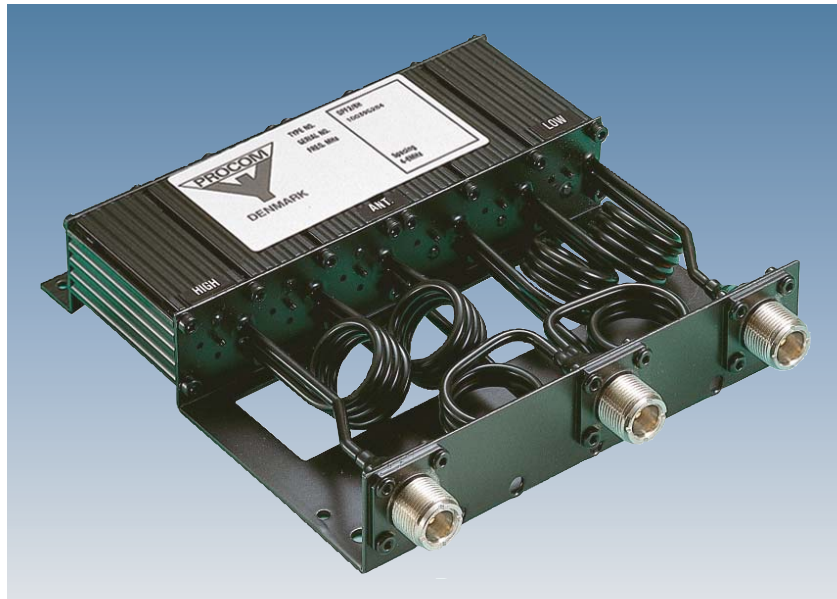
# DPF 2/6-SHT-...

## 6-Cavity Duplexer for the 175-250 MHz Band



### DESCRIPTION:

- ★ The DPF 2/6-SHT-... is a 6-cavity duplex filter for duplex radiotelephones.
- ★ This duplexer is delivered in a low band version type DPF 2/6-SHT-L, tunable within 175-250 MHz, medium band version type DPF 2/6-SHT-M, tunable within 200-230 MHz and a high band version type DPF 2/6-SHT-H, tunable within 230-260 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-SHT-... 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 black vinyl coated to prevent corrosion.



### SPECIFICATIONS:

ELECTRICAL	
MODEL	DPF 2/6-SHT-...
TX/RX FREQUENCY	DPF 2/6-SHT-L : 175-200 MHz DPF 2/6-SHT-M : 200-230 MHz DPF 2/6-SHT-H : 230-260 MHz
MAX. INPUT POWER	50 watts
INSERTION LOSS TX-ANT AND ANT-RX (at 4.5 MHz duplex spacing)	
Single-channel tuned	≤ 1.2 dB (typ. 1.0 dB)
Multi-channel tuned, 1.5 MHz BW	≤ 1.4 dB (typ. 1.2 dB)
TX NOISE SUPPRESSION ON RX-FREQUENCY	
Single-channel tuned	> 80 dB
Multi-channel tuned, 1.5 MHz BW	> 60 dB
RX ISOLATION ON TX-FREQUENCY	
Single-channel tuned	> 80 dB
Multi-channel tuned, 1.5 MHz BW	> 60 dB
DUPLEX SPACING	4-10 MHz
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 5 ppm/° C
CONNECTORS	N-female
DIMENSIONS (L x W x H)	191 x 154 x 33 mm
WEIGHT	Approx. 800 g

### MODEL SELECTION TABLE:

TUNING RANGE (MHz)	DUPLEX SPACING (MHz)	ORDERING DESIGNATION
175-200	4-6	DPF 2/6-SHT-L - 4/6
	6-8	DPF 2/6-SHT-L - 6/8
	8-10	DPF 2/6-SHT-L - 8/10
200-230	4-6	DPF 2/6-SHT-M - 4/6
	6-8	DPF 2/6-SHT-M - 6/8
	8-10	DPF 2/6-SHT-M - 8/10
230-260	4-6	DPF 2/6-SHT-H - 4/6
	6-8	DPF 2/6-SHT-H - 6/8
	8-10	DPF 2/6-SHT-H - 8/10

### ORDERING INFORMATION:

When ordering, please use the table above to select the appropriate ordering designation for the desired filter type. If duplex TX and RX frequencies are stated when ordering, the duplexers are delivered factory adjusted. If TX and RX frequencies are not stated, the filters are delivered non-adjusted.

### PLEASE NOTE:

Special configurations of this filter type may be quoted on request. For instance, the filter can be delivered with other connector types or with flying leads (RG 316 coaxial cable) terminated with connectors or for soldering-connection.

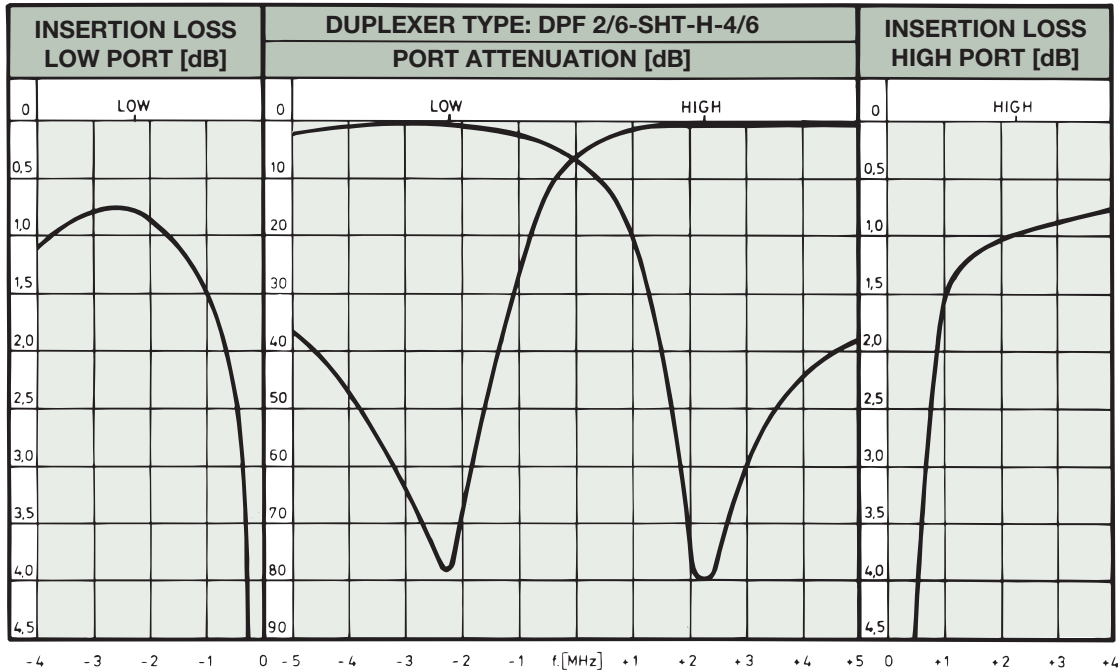
PROCOM A/S reserve the right to amend specifications without prior notice.

# DPF 2/6-SHT-...

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### TYPICAL RESPONSE CURVES @ 4.5 MHz DUPLEX SPACING:



### TYPICAL RESPONSE CURVES @ 9 MHz DUPLEX SPACING:

