

# DPF 70/6-XL...

## 6-Cavity Duplexer for the 400 MHz Band

### DESCRIPTION

- The DPF 70/6-XL... is a 6-cavity duplex filter for duplex radiotelephones.
- The DPF 70/6-XL... can be adjusted within the complete 340 - 400 MHz band. The duplexer can be supplied in four different versions according to duplex spacing required. See also "Ordering information" below.
- The DPF 70/6-XL... is primarily intended for equipment with TX and RX operating on single frequencies, but it 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 uses full-length ¼ cavities in a compact, extruded aluminium housing. The chassis is made of passivated steel and teflon insulation has been applied in the coaxial cables and in the connectors.
- The filter is black vinyl coated to prevent corrosion.



### ORDERING DESIGNATIONS

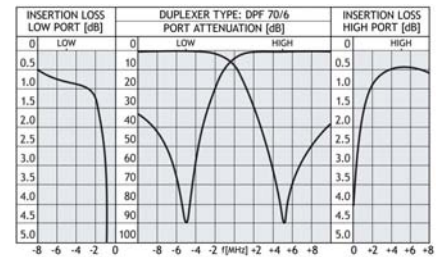
TYPE	PRODUCT NO.	DUPLEX SPACING (MHZ)
DPF 70/6-XL - 5/7	200001838	5 - 7
DPF 70/6-XL - 7/9	200001839	7 - 9
DPF 70/6-XL - 9/13	200001840	9 - 13
DPF 70/6-XL - 13/16	200000448	13 - 16

ORDERING INFORMATION: 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.

### SPECIFICATIONS

ELECTRICAL	
MODEL	DPF 70/6-XL...
TX/RX FREQUENCY	340 - 400 MHz
MAX. INPUT POWER	50 W
INSERTION LOSS TX-ANT AND ANT-RX (at 10 MHz duplex spacing)	
Single-channel tuned:	≤ 1.2 dB (typ. 1.0 dB)
Multi-channel tuned, 2 MHz BW:	≤ 1.2 dB (typ. 1.0 dB)
TX NOISE SUPPRESSION ON RX-FREQUENCY	
Single-channel tuned:	≥ 85 dB
Multi-channel tuned, 2 MHz BW:	≥ 65 dB
RX ISOLATION ON TX-FREQUENCY	
Single-channel tuned:	≤ 85 dB
Multi-channel tuned, 2 MHz BW:	≤ 65 dB
IMPEDANCE	Nom. 50 Ω
SWR (All ports)	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 4.5 ppm/° C
CONNECTIONS	BNC-female
DIMENSIONS (L x W x H)	245 x 154 x 33 mm
WEIGHT	Approx. 1123 g

### TYPICAL RESPONSE CURVES @ 10 MHz SPACING



### 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.  
25/08/11