

# DPF 8/6

## 6-Resonator Duplexer for the 8 m Band

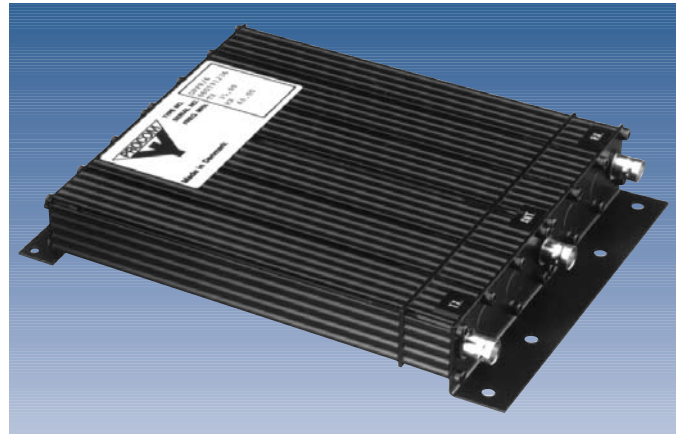


### DESCRIPTION:

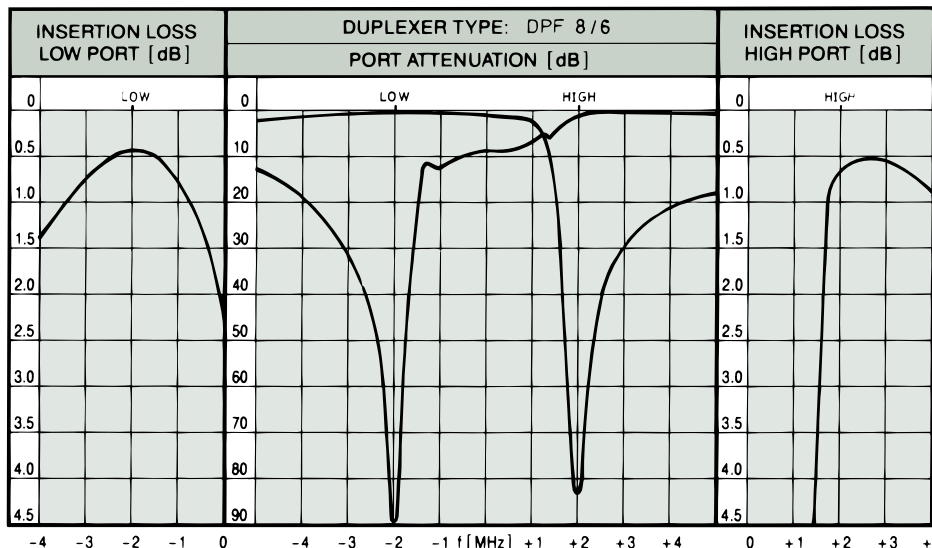
- ★ The DPF 8/6 is a 6-resonator duplex filter for duplex radiotelephones.
- ★ The filter is primarily intended for equipment, where the TX and the RX operate on single frequencies, but it can also, however with slightly reduced data, be used where the TX and RX operate on several channels, i.e. within a certain port bandwidth. In the last case, factory tuning is recommended.
- ★ The filter can be tuned within the 34-42 MHz band with a duplex separation between 4 and 8 MHz.
- ★ The filter has very small dimensions owing to the use of high-Q, temperature compensated helical resonators with discrete-component interconnections.
- ★ The housing is made of extruded aluminium, the chassis of passivated steel, and the connectors are provided with teflon insulation.
- ★ The filter is black vinyl coated to prevent corrosion.

### SPECIFICATIONS:

ELECTRICAL	
MODEL	DPF 8/6
TX/RX FREQUENCY	34-42 MHz
MAX. INPUT POWER	50 watts
INSERTION LOSS TX-ANT AND ANT-RX (at 4 MHz duplex spacing)	
Single-channel tuned	≤ 0.8 dB
Multi-channel tuned, 0.6 MHz BW	≤ 1.2 dB
TX NOISE SUPPRESSION ON RX-FREQUENCY	
Single-channel tuned	> 80 dB
Multi-channel tuned, 0.6 MHz BW	≥ 63 dB
RX ISOLATION ON TX-FREQUENCY	
Single-channel tuned	> 80 dB
Multi-channel tuned, 0.6 MHz BW	> 63 dB
DUPLEX SPACING	4-8 MHz
IMPEDANCE	Nom. 50 Ω
SWR	≤ 1.5
MECHANICAL	
TEMP. RANGE	-30° C → +60° C
FREQ. STABILITY	Approx. 15 ppm/° C
CONNECTORS	BNC-female
DIMENSIONS (L x W x H)	215 x 154 x 33 mm
WEIGHT	Approx. 900 g



### TYPICAL RESPONSE CURVES @ 4 MHz DUPLEX SPACING:



### PLEASE NOTE:

Duplex filters with other connector types, or duplexers similar to the DPF 8/6 but with other TX/RX frequencies may be quoted on request.