

## 4-Resonator Duplexer for the 80 MHz Band

### DESCRIPTION

- The DPF 4/4 S-4/13 is a 4-resonator duplex filter for duplex radiotelephones.
- This 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 duplexer can be tuned within the complete 66 - 88 MHz range with a duplex separation between 4 and 13 MHz.
- The filter has very small physical 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.



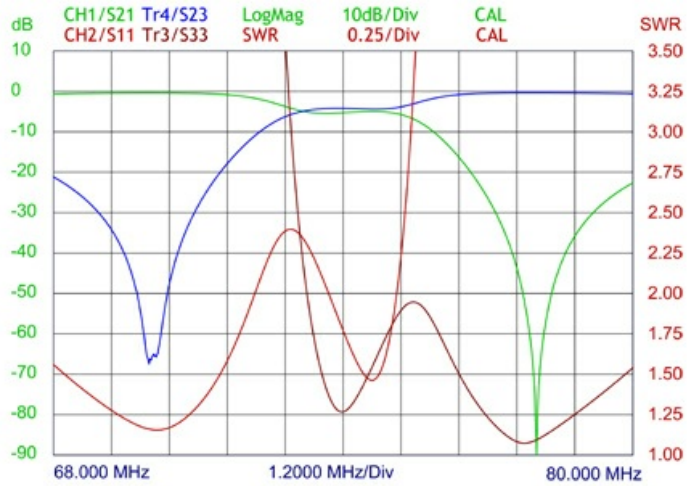
### SPECIFICATIONS

Electrical		
Model	DPF 4/4 S-4/13	
Frequency	66 - 88 MHz	
Max. Input Power	50 W	
Special spec. info	Single-channel tuned :	Multi-channel tuned, BW = 1 MHz :
Insertion Loss Tx-Ant and Ant-Rx	≤ 0.8 dB	≤ 1.0 dB
Tx Noise Suppression on Rx Frequency	> 70 dB	> 40 dB
Isolation Rx on Frequency Tx	> 60 dB	> 40 dB
Impedance	50 Ω	
Duplex Spacing	4 - 13 MHz (adjustable)	
VSWR	< 1.5:1	
Mechanical		
Connection(s)	N(f) (BNC(f), TNC(f), UHF(f) or SMA(f) on request)	
Dimensions	173 x 104 x 33 mm / 6.81 x 4.09 x 1.28 in.	
Weight	Approx. 0.54 kg / 1.19 lb.	
Environmental		
Operating temperature range	-30 °C to +60 °C	
Frequency Stability	Approx. 9 ppm / °C	

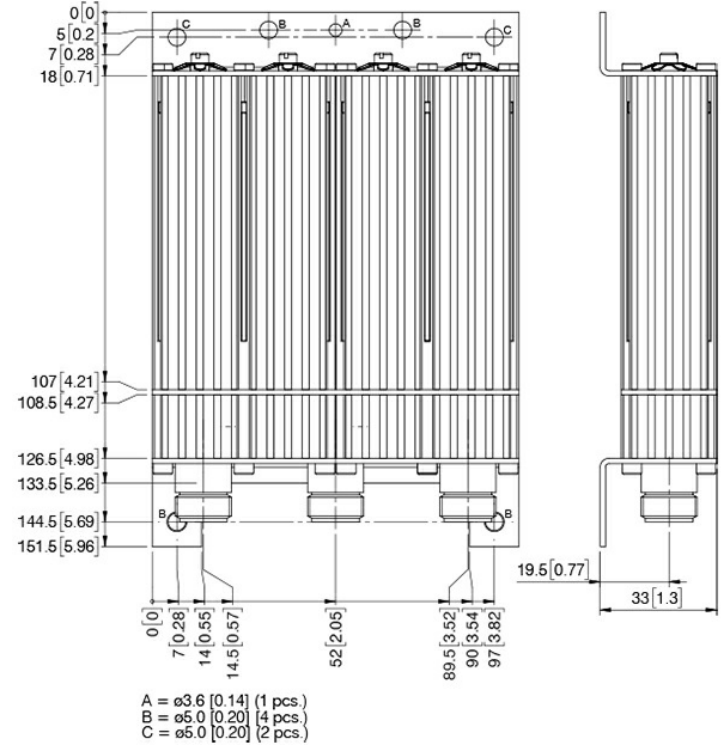
### ORDERING

Model	Product No.
DPF 4/4 S-4/13 N(f)	200000225

TYPICAL RESPONSE CURVE @ 4 MHZ DUPLEX SPACING



MOUNTING DETAILS



All dimensions are given in mm [in.]

