

6-Cavity Duplexer for 1400 MHz Band

DESCRIPTION

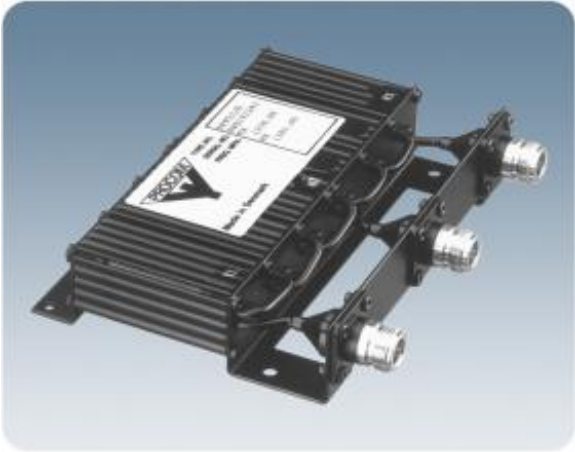
- The DPF 1400/6 is a 6-cavity duplex filter.
- The DPF 1400/6 can be tuned within the 1240 - 1600 MHz band with a nominal duplex separation of 35 MHz.
- The filter uses full-length ¼ λ cavities in a compact, extruded aluminium housing. The chassis is made of passivated steel, and teflon insulation has been applied in the rigid coaxial cables and in the connectors.
- The filter is black vinyl-coated to prevent corrosion.

SPECIFICATIONS

| Electrical                           |   |
|--------------------------------------|---|
| Model                                | DPF 1400/6                              |
| Frequency                            | 1240 - 1600 MHz                         |
| Max. Input Power                     | 50 W                                    |
| Insertion Loss Tx-Ant.               | ≤ 1.0 dB (typically = 0.7 dB)           |
| Tx-Noise Suppression on Rx-Frequency | 85 dB                                   |
| Rx-Isolation on Tx-Frequency         | 85 dB                                   |
| Impedance                            | 50 Ω                                    |
| Duplex Spacing                       | 35 MHz (nominal)<br>28 MHz on request   |
| VSWR                                 | < 1.5:1                                 |
| Mechanical                           |   |
| Connection(s)                        | N(f)                                    |
| Dimensions                           | 135 x 154 x 33 mm / 5.3 x 6.1 x 1.3 in. |
| Weight                               | Approx. 0.62 kg / 1.37 lb.              |
| Environmental                        |   |
| Operating Temperature Range          | -30°C to +60°C                          |
| Frequency Stability                  | 5 ppm/° C (approx.)                     |

ORDERING

| Model          | Product No. | Frequency       |
|----------------|-------------|-----------------|
| DPF 1400/6 - l | 200001986   | 1240 - 1440 MHz |
| DPF 1400/6 - h | 200002300   | 1440 - 1600 MHz |



DIAGRAM

TYPICAL RESPONSE CURVES

