



100W HIGH POWER HARMONIC REJECTION FILTER MODULE

Overview

High-power Harmonic Rejection Filter is a 100-Watts switched filter bank. It covers the frequency band of VHF/UHF range of 30-512 MHz with adjustable bandwidth.

Harmonic rejection filter operating in 30MHz to 512 MHz is designed for Software Defined Radio. Modular design with metal housing meeting EMI/EMC requirements. Entire frequency range is divided in to 7 bands to achieve harmonic rejection levels.

Technical Features

- Consists of 7 filter banks which can be selected with 3 input TTL control logic.
- High power harmonic rejection,
- Improved VSWR,
- Less passband variation,
- Lower insertion loss,
- Improved RF shielding/isolation, higher reliability.
- MIL 461E compliant
- Completely metal enclosed
- RF Connectors: SMA (Female)
- Operating Temperature: -20deg C to +70deg C

Technical Specifications

- Frequency of operation: 30MHz to 512 MHz
- Harmonic rejection: 50dBc
- DC control voltages: -100V and +5V
- In-band power handling: 100 W
- Input / output VSWR: 1.8:1 (Max)
- Insertions loss: 1.75 dB (Typ)
- Harmonics Rejection: 60dBc (min)
- Input / output impedance : 50 Ohm
- DC input Voltage / Current: +5VDc / 1A ; +120VDC / 8mA; Control: 3 bit (3.3V)

Mechanical Characteristics

- **RF in/Out Connector:** SMA 2Hole -Female
- **Dimensions:** 177x102x25 mm
- **Weight:** 0.54 kg
- **Power supply & monitoring connectors:** 9 pin micro D connector

Our USP

Modular and compact design

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