DFP-102RB • High Performance Diplexer

DESCRIPTION
A diplexer, used to provide two separate frequency channels to/from a common RF signal source, such as an antenna. It specifically provides channels of 240 to 270 MHz and 290 to 400 MHz. The filter networks used in the DFP-102RB are passive and bilateral, so the device can also be used to combine the two channels.

The most typical application is to couple 240 to 270 MHz UHF SATCOM downlink signals, from an antenna, to a receiver: simultaneously coupling uplink signals from a 290 to 400 MHz transmitter, to the antenna. The 290 to 400 MHz channel has an RF power handling capability of up to 200 W CW.

FEATURES
- High Performance/Ultra Compact
- Sharp Receive Channel Selectivity
- Rugged Construction
**Electrical Specifications**

**Receive Channel**
- Passband Loss: 240-270 MHz, 1.3 dB max.
- VSWR: 240-270 MHz, 1.5:1 max.
- Stopband Loss: 0-150 MHz, 90 dB min.; 220 MHz, 40 dB min.; 283 MHz, 60 dB min.; 290-400 MHz, 90 dB min.
- Power Handling: 240-270 MHz, 2 W max.

**Transmit Channel**
- Passband Loss: 290 MHz, 0.9 dB max.; 292.5 MHz, 0.7 dB max.; 296-400 MHz, 0.6 dB max.
- VSWR: 290-400 MHz, 1.4:1 max.
- Stopband Loss: 240-270 MHz, 80 dB min.
- Power Handling: 292.5-400 MHz, 200 W max.

**General Characteristics**
- Environment: Shipboard/Airborne
- Weight: 3.2 lbs.
- Size: 8.75" Long x 4.00" Wide x 1.5" Tall
- Connectors: Type N-Female