



DFP-102RB • High Performance Diplexer



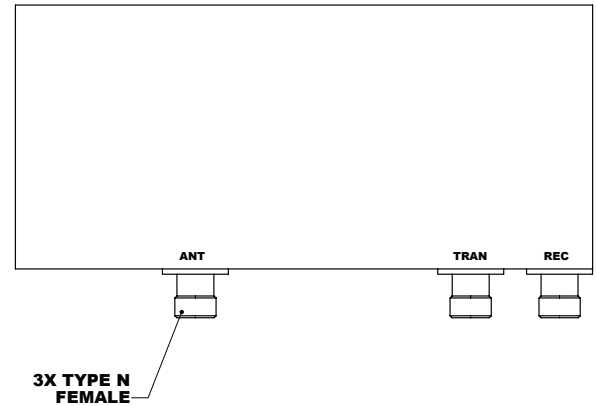
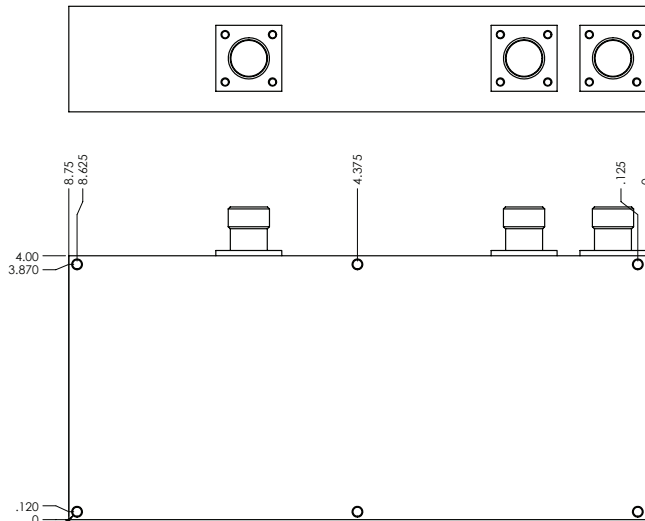
DESCRIPTION

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	240-270MHz	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.
	296-400MHz	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