

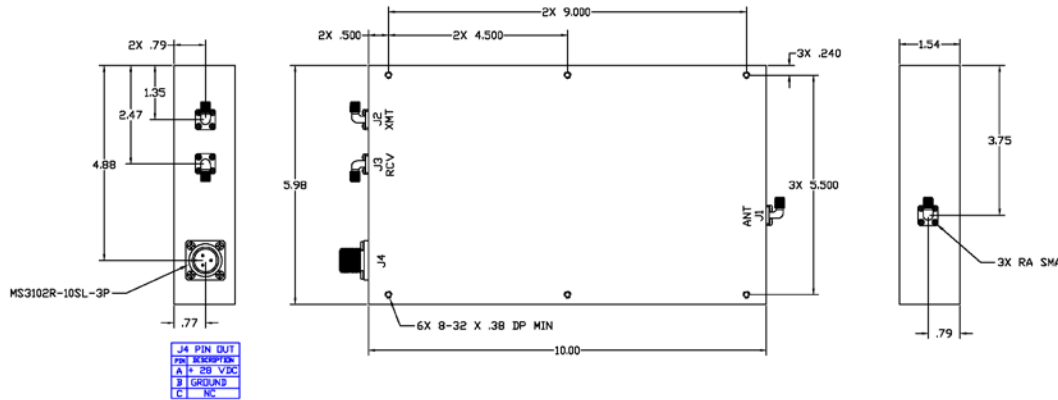


# DFP-108B

## DIPLEXER-PREAMPLIFIER

# UHF SATCOM

## FULL DUPLEX OPERATION



## ELECTRICAL SPECIFICATIONS

### RECEIVE CHARACTERISTICS, J1 to J3

Passband	240-270 MHz
Gain, 240-270 MHz	28 dB min.
Gain Variation, 240-270 MHz	1.5 dB max.
VSWR, 240-270 MHz	1.6:1 max.
Stopband	
0-180 MHz	90 dB min.
180-218 MHz	60 dB min.
292-400 MHz	90 dB min.
400-1000 MHz	80 dB min.
Noise Figure, 240-270 MHz	2.5 dB max.
Input @ 1 dB gain compression	-21 dBm min.
Input signal, protection level, 240-270 MHz	1W, CW max.
Intercept point, third order	+23 dBm nom.
Isolation, J2 to J3	
2-228 MHz*	95 dB min.
240-270 MHz*	30 dB min.
290-400 MHz*	75 dB min.

### TRANSMIT CHARACTERISTICS, J2 to J1

Passband, 290-320 MHz	1.0 dB max.
Insertion Loss, 295-315 MHz	0.8 dB max.
Insertion Loss over passband	1.0 dB max.
Input Power	+23 dBW max.
VSWR, 290-320 MHz	1.4:1 max.
Stopband	
0-250 MHz	85 dB min.
250-270 MHz	55 dB min.
360-400 MHz	60 dB min.
400-1000 MHz	85 dB min.

## GENERAL CHARACTERISTICS

Power	
Voltage	+24 to +32 VDC
Current, steady state	100 mA max.
Environment	Airborne/ Shipboard
Size, excluding connectors	10.00" x 5.98" x 1.54"
Weight	5 lbs. max.
Temperature, Operating	-30°C to +60°C
Connectors	
J1 - ANTENNA	SMA 90° (Female)
J2 - TRANSMIT IN	SMA 90° (Female)
J3 - RECEIVE OUT	SMA 90° (Female)
J4 (+28 VDC)	MS3102R-10SL-3P

\* Includes Gain of Preamplifier

REV: 8/29/16