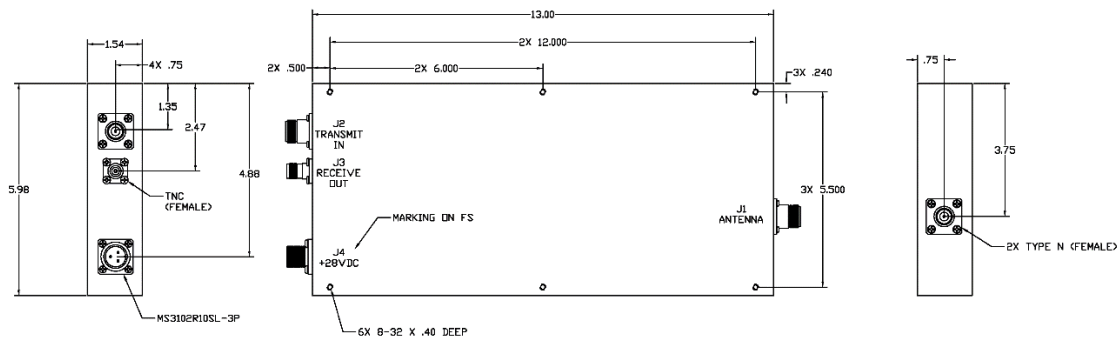




# DFP-106G DIPLEXER – PREAMPLIFIER

# UHF SATCOM FULL DUPLEX OPERATION



## ELECTRICAL SPECIFICATIONS

### TRANSMIT CHARACTERISTICS, J2 to J1, (Note 3)

Passband	291-318.3 MHz
Insertion Loss	
295-315 MHz	0.8 dB max.
Over full passband	1.0 dB max.
VSWR, 291-318.3 MHz	1.4:1 max.
RF Input Power, CW	+23 dBW max.
Stopband	
0-250 MHz	90 dB min.
250-270 MHz	80 dB min.
350-400 MHz	80 dB min.
400-1000 MHz	90 dB min.

### GENERAL CHARACTERISTICS

Environmental Capability	Airborne/Shipboard
Weight	6.5 lbs. max.
Operating Power	
Voltage	+22 - +32 VDC
Current	90 mA nom.
Size, excluding connectors	13.00" x 5.98" x 1.54"
CONNECTORS	
J1 and J2	Type N (Female)
J3	TNC (Female)
J4	MS3102R10SL-3P

### RECEIVE CHARACTERISTICS, J1 to J3, (Note 1)

Passband Roll-off, 243- 270 MHz	1.5 dB max.
VSWR, 243-270MHz	1.6:1 max.
Stopband	
0-180 MHz	95 dB min.
180-210 MHz	90 dB min.
291-400 MHz	90 dB min.
400-1000 MHz	95 dB min.
Gain, 243-270 MHz	30 dB min./ 33 dB max.
Noise Figure, 243-270 MHz	2.5 dB max.
Input @ 1 dB gain compression	-18 dBm min.
Intercept Point, third order	+22 dBm nom.
Input Signal, Protection Level, 243-270 MHz	1W, CW
Reverse Isolation (J3 to J1), 0.3 to 1000 MHz	55 dB min.

### TRANSMIT TO RECEIVE ISOLATION (Note 2)

Rejection	
0.3-228 MHz	95 dB min.
243-270 MHz	55 dB min.
291-512 MHz	85 dB min.

#### Notes:

1) Unless otherwise listed, applicable over 243-270 MHz, J1 (ANT) to J3 (RCVR) Stopband values are relative from the maximum passband gain. J2 (TRAN) terminated with 50 Ohms.

2) Measured from J2 (TRAN) to J3 (RCVR) with 50 Ohm load on J1 (ANT). Values include the gain of the preamplifier.

3) Measured from J2 (TRAN) to J1 (ANT), 291-318.3 MHz, with preamp ON and J3 terminated with 50 Ohms.

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