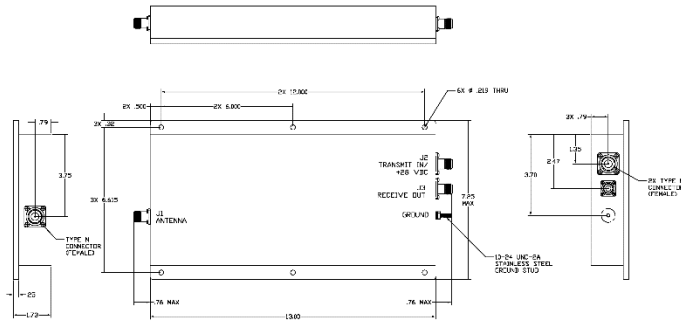




DFP-106G-1B UHF SATCOM DIPLEXER/LNA

FULL DUPLEX OPERATION



ELECTRICAL SPECIFICATIONS

RECEIVE CHARACTERISTICS, J1- J3, Note 1,4

Passband	243-270 MHz
VSWR over passband	1.5:1 max.
Stopband	
0-180 MHz	90 dB min.
180-210 MHz	70 dB min.
291-400 MHz	90 dB min.
400-1100 MHz	90 dB min.
1100-1600 MHz	50 dB min.
Gain	28.5 dB min./ 31.5 dB max.
Noise Figure	2.5 dB max.
Input @ 1 dB gain compression	0 dBm nom.
Input Signal, Protection Level, 243-270 MHz	1W, CW
Intercept Point, third order	+43 dBm nom.
Reverse Isolation (J3-J1), 0.3-1000 MHz	50 dB min.

TRANSMIT TO RECEIVE ISOLATION, J2-J3, Note 2

Rejection	
0.3-228 MHz	95 dB min.
243-270 MHz	55 dB min.
291-400 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/+28 VDC) terminated with 50 Ohms.
2. Measured from J2 (TRAN/ +28 VDC) to J3 (RCVR) with 50 Ohm load on J1 (ANT). Values include the gain of the preamplifier
3. Measured from J2 (TRAN/+28 VDC) to J1 (ANT), 291-318.3 MHz, with preamp ON and J3 terminated with 50 Ohms.
4. LNA Operating power supplied through an integral bias-tee at J2 (TRAN/ +28 VDC).

TRANSMIT CHARACTERISTICS, J2- J1, Note 3

Passband	291-318.3 MHz
Insertion Loss, 295-315 MHz	0.8 dB max.
Insertion Loss over passband	1.0 dB max.
VSWR over 291-318.3 MHz	1.4:1 max.
Input Power, max.	+23 dBW
Stopband	
0-250 MHz	90 dB min.
250-270 MHz	80 dB min.
350-400 MHz	75 dB min.
400-820 MHz	90 dB min.
820-1150 MHz	60 dB min.

GENERAL CHARACTERISTICS

Environment	Shipboard/Airborne Weather Resistant
Weight	9 lbs. max.
Size, excluding connectors	13.00" X 7.25" X 1.73"
Operating Current, 24-32 VDC Note 4	0.52 A max.
Connectors	
J1 Antenna	Type N (Female)
J2 TX In, +28 VDC In	Type N (Female)
J3 Receive Out	Type N (Female)

REV: 12/12/16