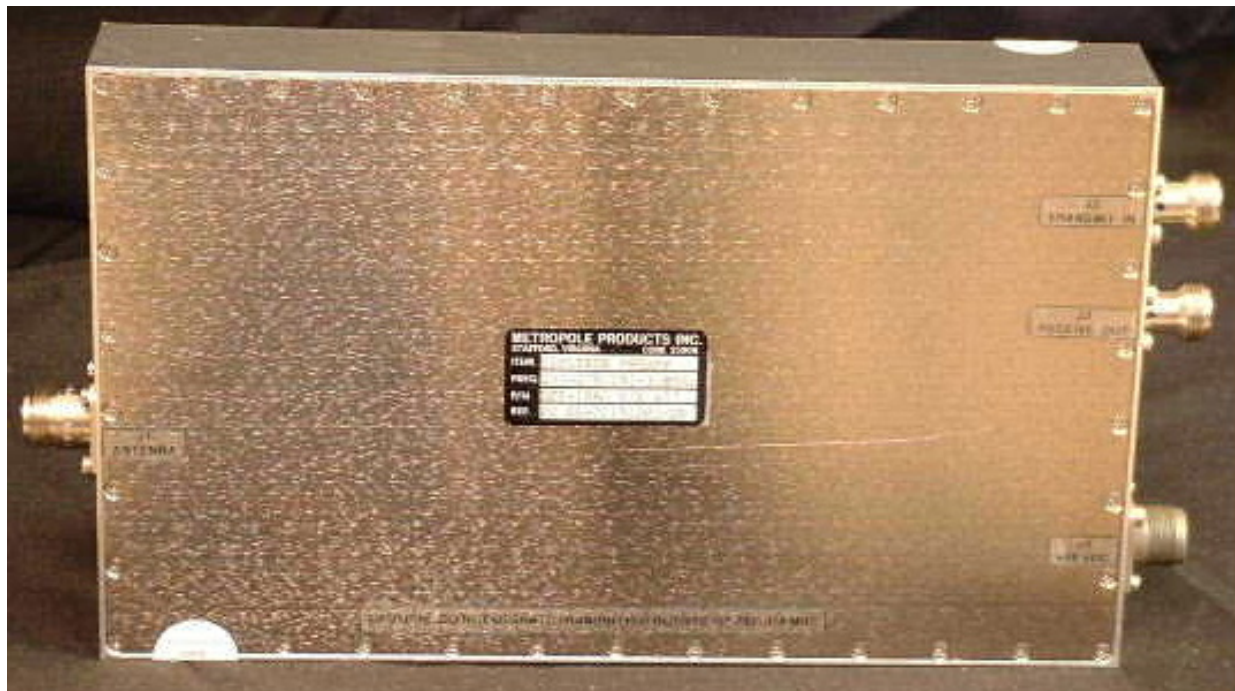




DFP-106C UHF SATCOM (DAMA)

ANTENNA DIPLEXER- PREAMPLIFIER
FULL DUPLEX OPERATION



DESCRIPTION

High Performance UHF SATCOM antenna diplexer with an integral low noise amplifier. Allows simultaneous transmit and receive without switches.

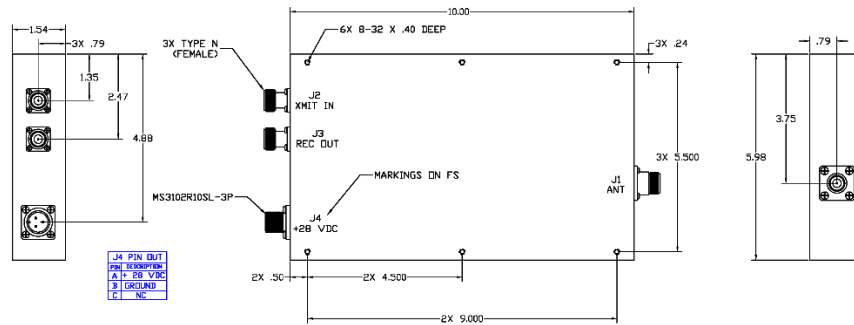
FEATURES

- Low noise figure
- High isolation, allows full duplex operation
- Compact form factor



DFP-106C

ANTENNA DIPLEXER - PREAMPLIFIER



ELECTRICAL SPECIFICATIONS

RECEIVE CHARACTERISTICS, J1 to J3

Passband, at 1.5 dB max. rolloff	243-270 MHz
Gain, 243-270 MHz	30 dB min.
VSWR, 243-270 MHz	1.5:1 max.
Stopband	
0-180 MHz	90 dB min.
180-218 MHz	60 dB min.
291-512 MHz	90 dB min.
512-1000 MHz	60 dB min.
Noise Figure, 243-270 MHz	2.5 dB max.
Input@ 1 dB gain compression	-18 dBm min.
Input signal, max.**, 243-270 MHz	1W, CW
Intercept point, third order	+22 dBm nom.
Isolation, J2 to J3	
0-228 MHz*	95 dB min.
240-270 MHz*	30 dB min.
291-512 MHz	75 dB min.

TRANSMIT CHARACTERISTICS, J2 to J1

Passband	291-318.3 MHz
Insertion Loss, 295-315 MHz	0.8 dB max.
Insertion Loss over passband	1.0 dB max.
Input Power	+21.5 dBW max.
VSWR, 291-318.3 MHz	1.4:1 max.
Stopband	
0-250 MHz	90 dB min.
250-270 MHz	60 dB min.
355-400 MHz	60 dB min.
400-1000 MHz	90 dB min.

GENERAL CHARACTERISTICS

Power	
Voltage	+21 to +32 VDC
Current, steady state	100 mA max.
Environment	Airborne/ Shipboard
Temperature	
Operating	-55°C to +70°C
Storage	-57°C to +85°C
Size, excluding connectors	10.00" x 5.98" x 1.54"
Weight	5 lbs. max.
Connectors	
J1 - ANTENNA	Type N (Female)
J2 - TRANSMIT IN	Type N (Female)
J3 - RECEIVE OUT	Type N (Female) or TNC (Female)
J4 - +28 VDC	MS3102R-10SL-3P
Finish	Chemical Film, Color: Gold

* Includes Gain of Preamplifier
 ** Protection Level, higher beyond passband

REV: 10/25/16