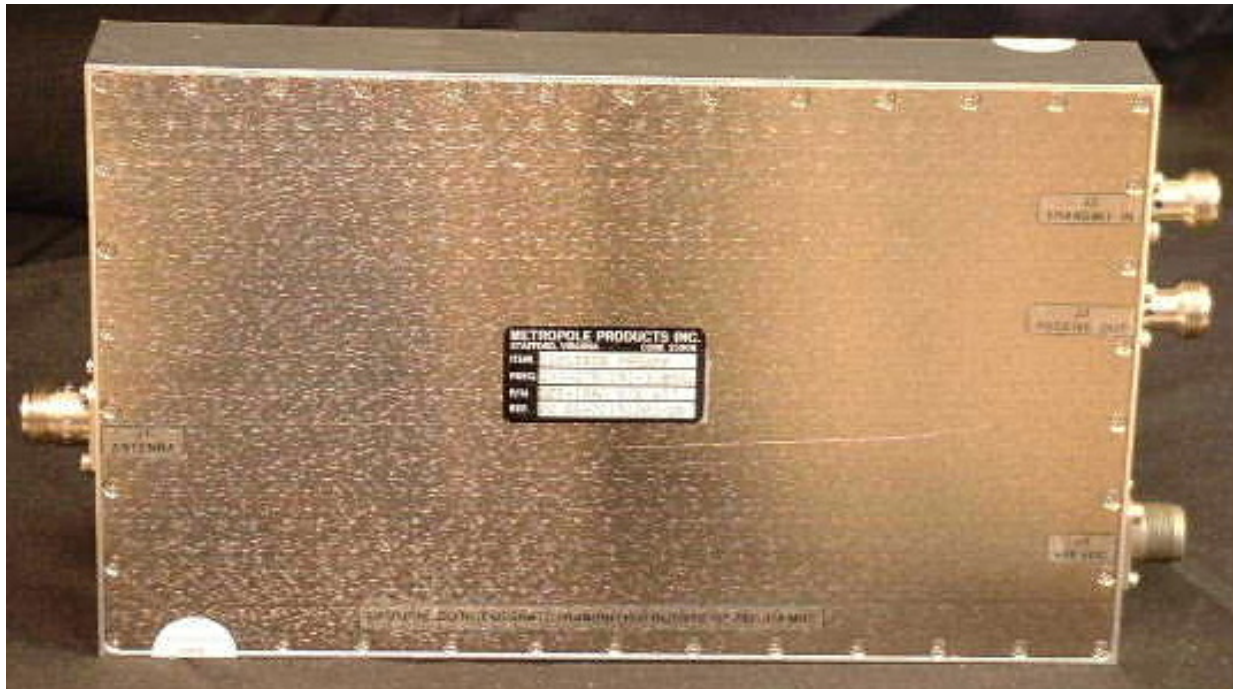




DFP-106C UHF SATCOM (DAMA)

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.

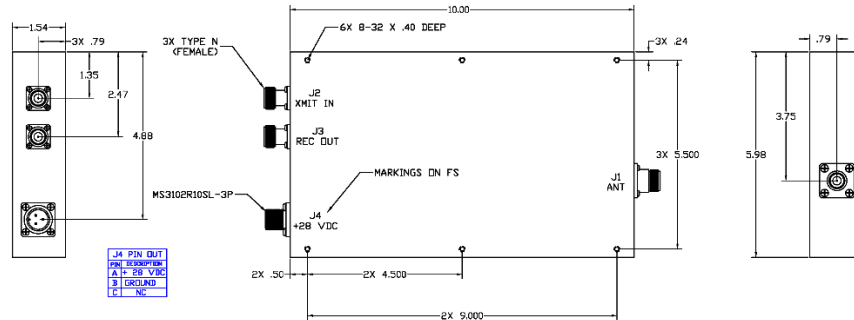
FEATURES

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

* Includes Gain of Preamplifier

** Protection Level, higher beyond passband

REV: 11/04/2019