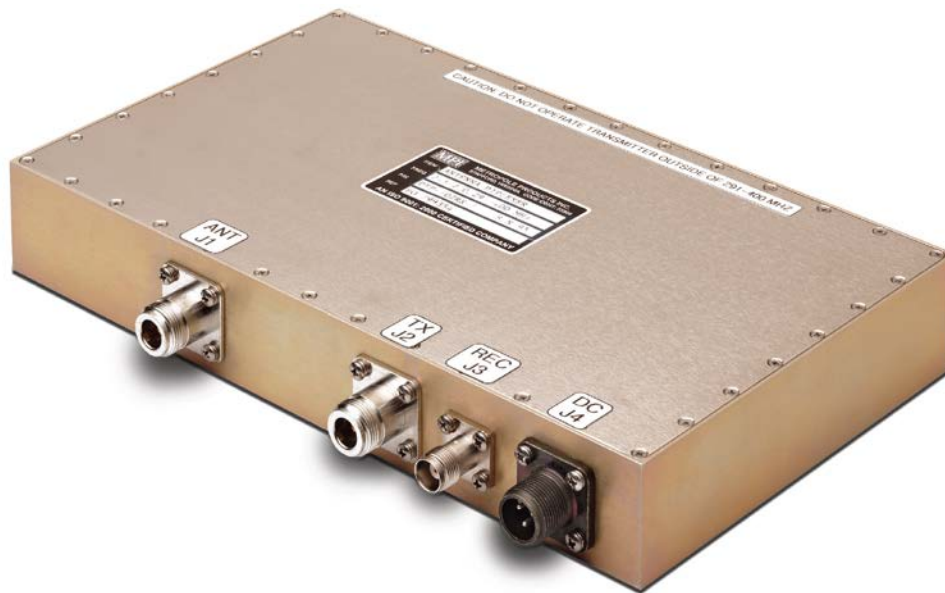




## DFP-102RX-1 ANTENNA DIPLEXER/LNA

## UHF SATCOM FULL DUPLEX OPERATION



### DESCRIPTION

A UHF SATCOM (DAMA) compatible, antenna diplexer, integrated with a low noise figure preamplifier in a compact weather tight unit. This configuration allows full duplex operation of a UHF SATCOM, or similar, transmitter (291-400 MHz) and a UHF SATCOM or similar, receiver (243-270 MHz)

### FEATURES

Nominal gain of 32 dB over 243-270 MHz with a maximum noise figure of 2.5 dB.



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## RECEIVE CHARACTERISTICS J1 to J3

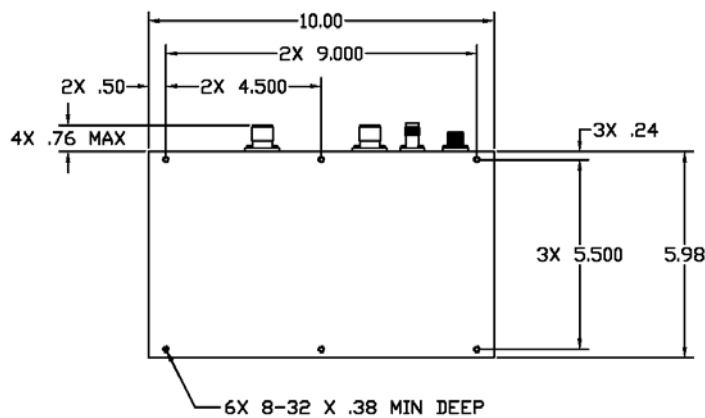
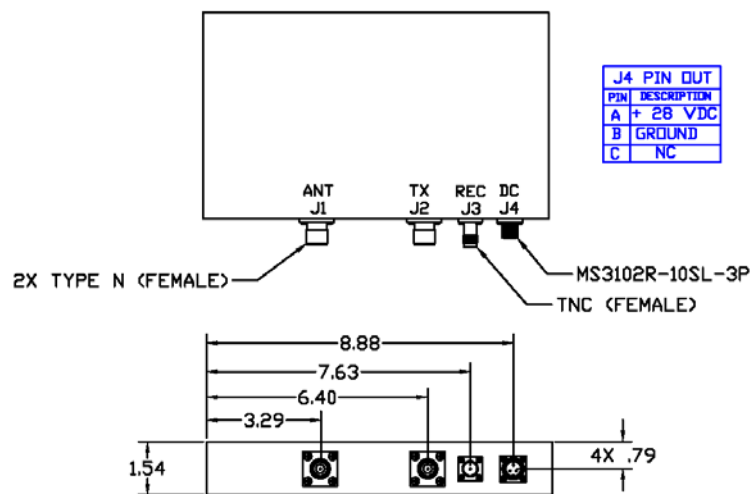
Passband	243-270 MHz
Gain	30 dB min.
Gain Rolloff	1.5 dB max.
VSWR, ANT (J1), 243-270 MHz	1.6:1 max.
REJECTION	
0-125 MHz	90 dB min.
125-180 MHz	75 dB min.
180-200 MHz	60 dB min.
291-400 MHz	100 dB min.
400-700 MHz	70 dB min.
Noise Figure	2.5 dB max.
Input @ 1 dB gain compression	-18 dBm min.
Intercept point, third order	+22 dBm nom.
Input signal (protection level)	1 W max.
Preamp Current (+24 to +32 VDC)	90 mA nom.

## TRANSMIT CHARACTERISTICS J2 to J1

Passband	291-400 MHz
Insertion Loss, 291- 400 MHz	0.7 dB max.
VSWR, Passband	1.4:1 max.
REJECTION	
0-32 MHz	50 dB min.
32-225 MHz	35 dB min.
225-270 MHz	60 dB min.
Transmit Power Handling	160W-CW max.

## GENERAL CHARACTERISTICS

Environment, not exposed to weather	Airborne/Shipboard
Temperature	-40° C to +65° C
Weight	5lbs. max.
Connectors	
J1 ANT	Type N (Female)
J2 TX	Type N (Female)
J3 RX	Type TNC (Female)
J4 DC	MS3102R-10SL-3P
Size, excluding connectors	10.00" x 5.98" x 1.54"



REV: 11/15/16