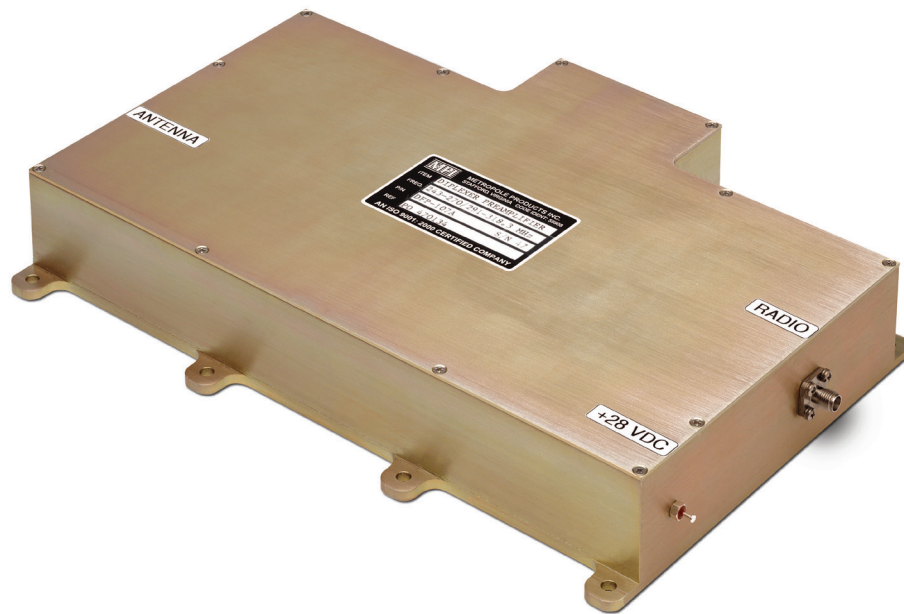




DFP-107A • SATCOM Diplexer/LNA

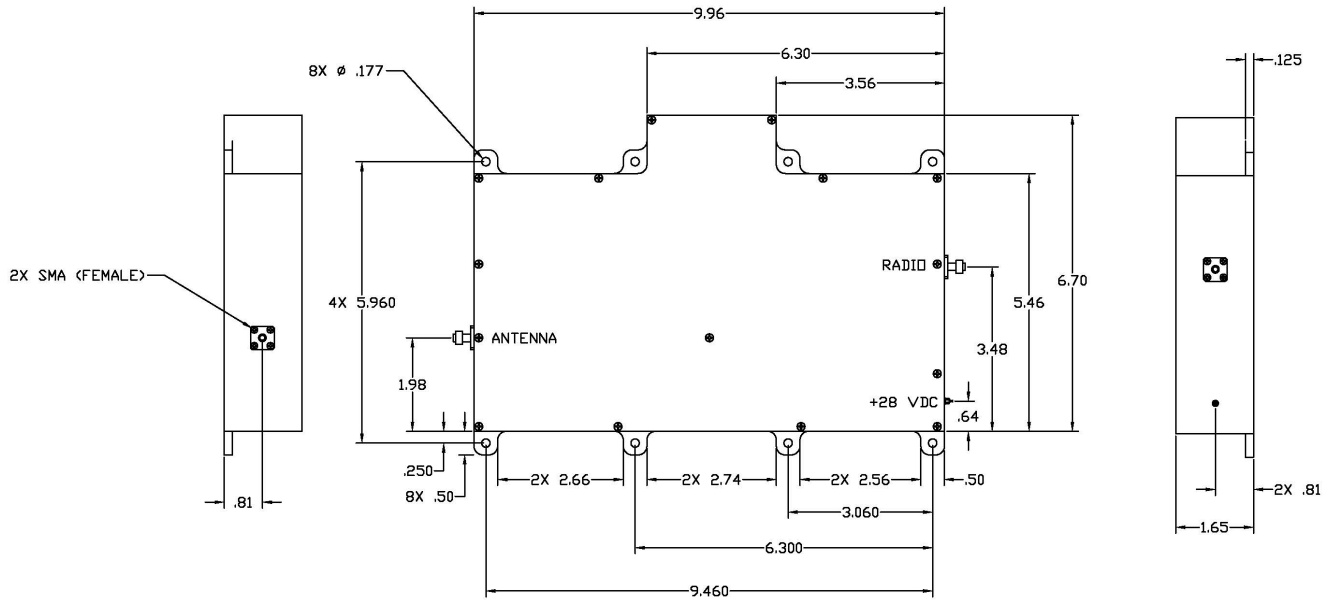


DESCRIPTION

A high performance UHF SATCOM (DAMA) Antenna Diplexer/LNA. Receive channel isolation sufficient for full duplex operation, with 2.5 dB max noise figure.

FEATURES

- ▶ High level (20 dB nominal) protection of the ancillary transmitter from other co-site UHF SATCOM transmitter signals, while providing <1.3 dB forward loss.



ELECTRICAL CHARACTERISTICS

RECEIVE CHANNEL

Bandwidth @ -1.5 dB max.	243-270 MHz
VSWR, ANT INPUT, 243-270 MHz	1.5:1 max.
Rejection: 0-225 MHz	90 dB min.
285-340 MHz	50 dB min.
340-370 MHz	65 dB min.
370-1000 MHz	80 dB min.
Gain 243-270 MHz	30 dB min.
Noise Figure	2.5 dB max.
Input @ 1 dB gain compression	-18 dBm min.
Input signal protection (243-270 MHz)	1 W max.
Intercept point, third order	+23 dBm nominal
Preamp Current (24-32 VDC)	0.1A max.
Reverse Isolation 0-270 MHz	50 dB min.

Measurement Tolerance:

LOSS:	0 to 1.5 dB, +/- .05 dB
	1.6 to 40 dB, +/- 0.1 dB
	Above 40 dB, +/- 2 dB

TRANSMIT CHANNEL

0-230 MHz	80 dB min.
243-265 MHz	55 dB min.
265-270 MHz	50 dB min.
291-294 MHz	1.3 dB max.
294-315 MHz	1.0 dB max.
315-318.3 MHz	1.1 dB max.
375-400 MHz	50 dB min.
410-1000 MHz	80 dB min.
VSWR, 291-318.3 MHz	1.4:1 max.
Reverse Isolation, 291-318.3 MHz	16dBmin., 20 dB nom.
Reverse VSWR, 291-318.3 MHz	1.5:1 max.

GENERAL CHARACTERISTICS

Size	1.65" x 7.2" x 9.96"
	Excluding connectors
Weight	5.4 lbs max.
Connectors	RF- Type SMA female
	DC- Solder terminal

Rev: 4/11/16