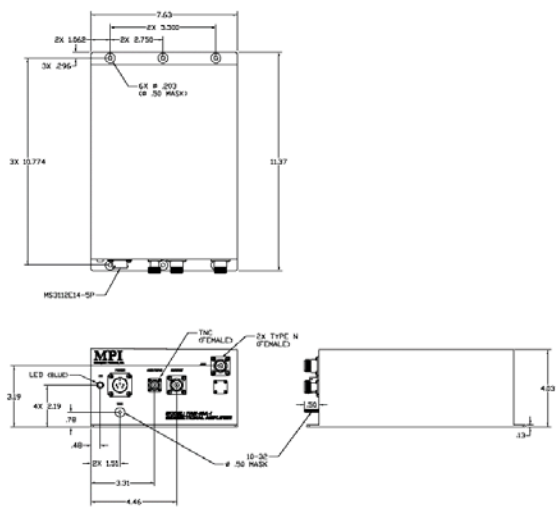




FAM-48A-1 BIDIRECTIONAL AMPLIFIER

UHF SATCOM (DAMA) LNA/HPA



ELECTRICAL SPECIFICATIONS

RECEIVE MODE

| | ANT to XMT/RCV | ANT to AUX/RCVR |
|-------------------------------|-------------------|--------------------|
| Frequency Range | 243-270 MHz | 243-270 MHz |
| Gain | 23 dB min. | 25 dB min. |
| Gain Variation | 1.5 dB max. | 1.0 dB max. |
| Noise Figure | 1.8 dB max. | 1.8 dB max. |
| VSWR | 1.5:1 max. | 1.5:1 max. |
| Input @ 1dB gain compression | 0 dBm min. | 0 dBm min. |
| Input Signal, max. | 200 mW CW | 200mW CW |
| Intercept Point, third order | +40 dBm nom. | +40 dBm nom. |
| Rejection | | |
| 0-80 MHz | 95 dB min. | 70 dB min. |
| 80-200 MHz | 90 dB min. | 40 dB min. |
| 200-220 MHz | 60 dB min. | 30 dB min. |
| 280-300 MHz | 40 dB min. | 20 dB min. |
| 300-340 MHz | 40 dB min. | 80 dB min. |
| 340-600 MHz | | 85 dB min. |
| 340-2000 MHz | 80 dB min. | |
| Reverse Isolation | 55 dB min. | 50 dB min. |
| AUX RCVR to XMT/RCV Isolation | | 20 dB min. |

TRANSMIT MODE, XMT/RCV to ANT

| | |
|---------------------|---------------|
| Passband | 291-318.3 MHz |
| Gain, Input | |
| 5 to 9 W | < 6.5 dB |
| 10 to 30 W | 6 to 10 dB |
| VSWR, 291-318.3 MHz | 1.4:1 max. |
| Output Power | |
| 5 to 9 W, input | 4 to 40 W |
| 10 to 30 W, input | 40-180 W |
| Stopband | |
| 0-270 MHz | 55 dB min. |
| 360-2000 MHz | 70 dB min. |

GENERAL CHARACTERISTICS

| | |
|--------------------------------------|------------------------|
| Environment (not exposed to weather) | Airborne |
| Weight | 8.5 lbs. nom. |
| Size, Excluding connectors | 11.37" x 7.63" x 4.00" |
| DC Operating Current, +28 VDC nom. | 16 A max. |
| Connectors | |
| XMT/RCV, ANT | Type N (Female) |
| AUX/RCVR | TNC (Female) |
| POWER | MS3112E14-5P |

REV: 8/23/17