

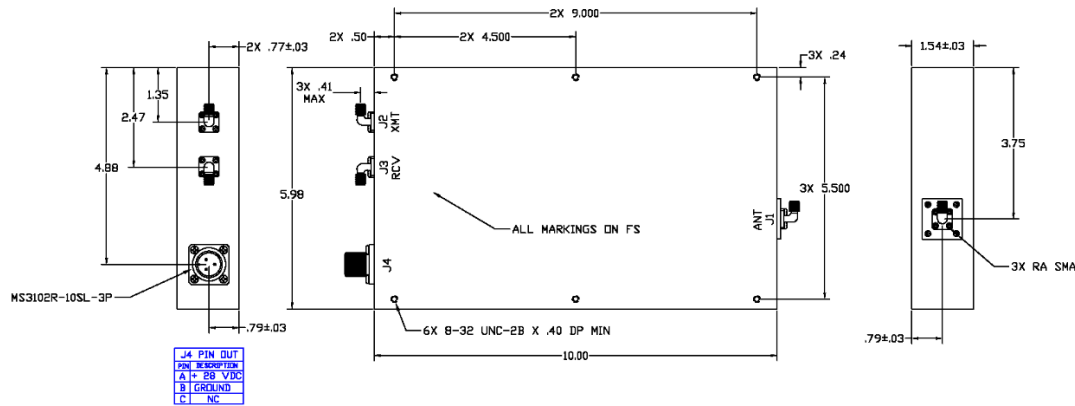


DFP-108B

DIPLEXER-PREAMPLIFIER

UHF SATCOM

FULL DUPLEX OPERATION



ELECTRICAL SPECIFICATIONS

RECEIVE CHARACTERISTICS, J1 to J3

| | |
|---|--------------|
| Passband | 240-270 MHz |
| Gain, 240-270 MHz | 28 dB min. |
| Gain Variation, 240-270 MHz | 1.5 dB max. |
| VSWR, 240-270 MHz | 1.6:1 max. |
| Stopband | |
| 0-180 MHz | 90 dB min. |
| 180-218 MHz | 60 dB min. |
| 292-400 MHz | 90 dB min. |
| 400-1000 MHz | 80 dB min. |
| Noise Figure, 240-270 MHz | 2.5 dB max. |
| Input@ 1 dB gain compression | -21 dBm min. |
| Input signal, protection level, 240-270 MHz | 1W, CW max. |
| Intercept point, third order | +23 dBm nom. |
| Isolation, J2 to J3 | |
| 2-228 MHz* | 95 dB min. |
| 240-270 MHz* | 30 dB min. |
| 290-400 MHz* | 75 dB min. |

TRANSMIT CHARACTERISTICS, J2 to J1

| | |
|------------------------------|--------------|
| Passband, 290-320 MHz | 1.0 dB max. |
| Insertion Loss, 295-315 MHz | 0.8 dB max. |
| Insertion Loss over passband | 1.0 dB max. |
| Input Power | +23 dBW max. |
| VSWR, 290-320 MHz | 1.4:1 max. |
| Stopband | |
| 0-250 MHz | 85 dB min. |
| 250-270 MHz | 55 dB min. |
| 360-400 MHz | 60 dB min. |
| 400-1000 MHz | 85 dB min. |

GENERAL CHARACTERISTICS

| | |
|----------------------------|------------------------|
| Power | |
| Voltage | +24 to +32 VDC |
| Current, steady state | 100 mA max. |
| Environment** | Airborne/ Shipboard |
| Size, excluding connectors | 10.00" x 5.98" x 1.54" |
| Weight | 5 lbs. max. |
| Temperature, Operating | -30°C to +60°C |
| Connectors | |
| J1 - ANTENNA | SMA 90° (Female) |
| J2 - TRANSMIT IN | SMA 90° (Female) |
| J3 - RECEIVE OUT | SMA 90° (Female) |
| J4 (+28 VDC) | MS3102R-10SL-3P |

* Includes Gain of Preamplifier
 ** Not Directly Exposed to Weather

REV: 1/8/20