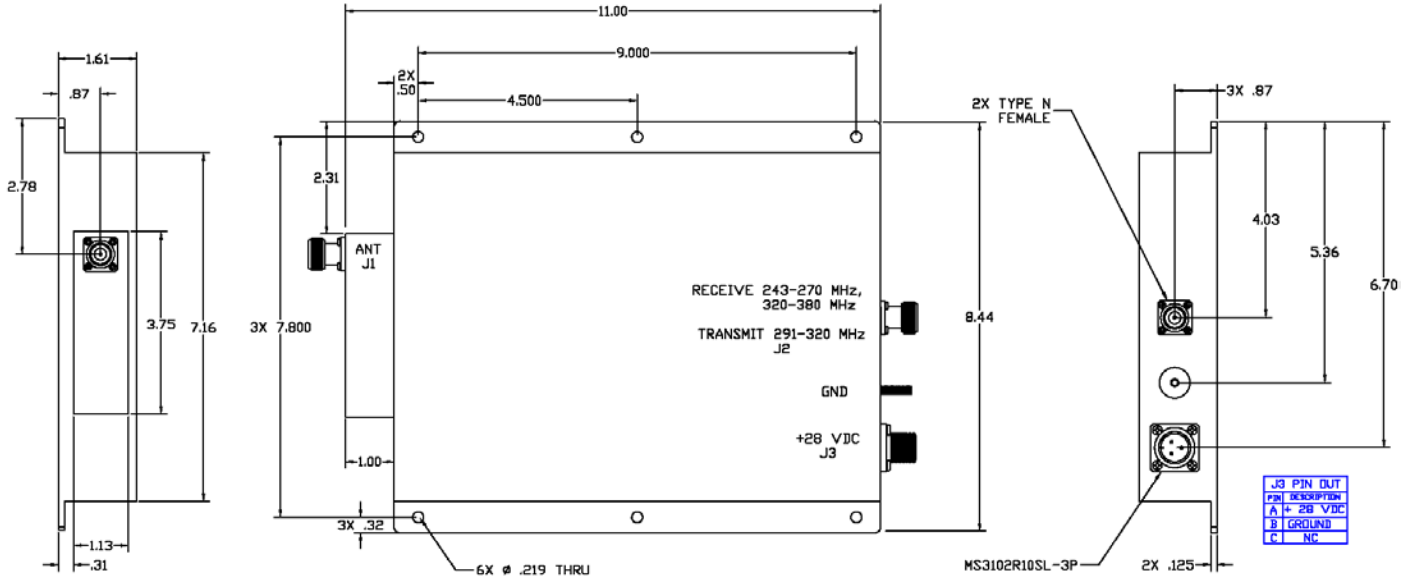




DFP-106AM

DUAL DIPLEXER-PREAMPLIFIER



ELECTRICAL SPECIFICATIONS

UFO RECEIVE CHARACTERISTICS, J1 to J2

| | |
|--|-----------------------|
| Passband | 243-270 MHz |
| VSWR, J1, 243-270 MHz | 1.5:1 max. |
| VSWR, J2, 243-270 MHz | 1.4:1 max. |
| Stopband* | |
| 0-216 MHz | 90 dB min. |
| 216-225 MHz | 70 dB min. |
| 290-380 MHz | 20 dB nom. |
| 505-3000 MHz | 90 dB min. |
| Gain, 243-270MHz | 18 dB min./22 dB max. |
| Gain Rolloff, 243-270 MHz | 1.5 dB max. |
| Gain Ripple, 243-270 MHz | 0.5 dB max. |
| Noise Figure, 243-270 MHz | 2.5 dB max. |
| Input@ 1 dB gain compression, 243-270 MHz | -2 dBm min. |
| Input signal, Protection Level, 243-270 MHz | 1 W CW |
| Reverse Input, J2, 291-320 MHz, 30 sec. max. | 110 W CW |
| Intercept Point, third order | +27 dBm nom. |
| Reverse isolation, 243-270 MHz | 45 dB min. |

*Relative to peak gain

**Limited by LNA reverse isolation

*** Not directly exposed to weather

MUOS RECEIVE, J1-J2 TRANSMIT/ RECEIVE, J2-J1 CHARACTERISTICS

| | |
|--------------------|-------------|
| Passband | 291-380 MHz |
| Insertion Loss | |
| 291-295 MHz | 1.1 dB max. |
| 295-380 MHz | 1.0 dB max. |
| VSWR, 291-380 MHz | 1.4:1 max. |
| RF Input Power, CW | |
| 291-320 MHz | 140 W max. |
| 320-380 MHz | 50 W max. |
| Stopband | |
| 0-230 MHz | 90 dB min. |
| 230-270 MHz** | 45 dB min. |
| 450-540 MHz | 60 dB min. |
| 540-3000 MHz | 85 dB min. |

GENERAL CHARACTERISTICS

| | |
|----------------------------|------------------------|
| Environment*** | Airborne/ Shipboard |
| Size, excluding connectors | 11.00" x 8.44" x 1.61" |
| Weight | 7.3 lbs. |
| Power, LNA Operating | |
| Voltage | +20 to +32 VDC |
| Current | 0.1 A nom. |

Rev: 11/29/2021