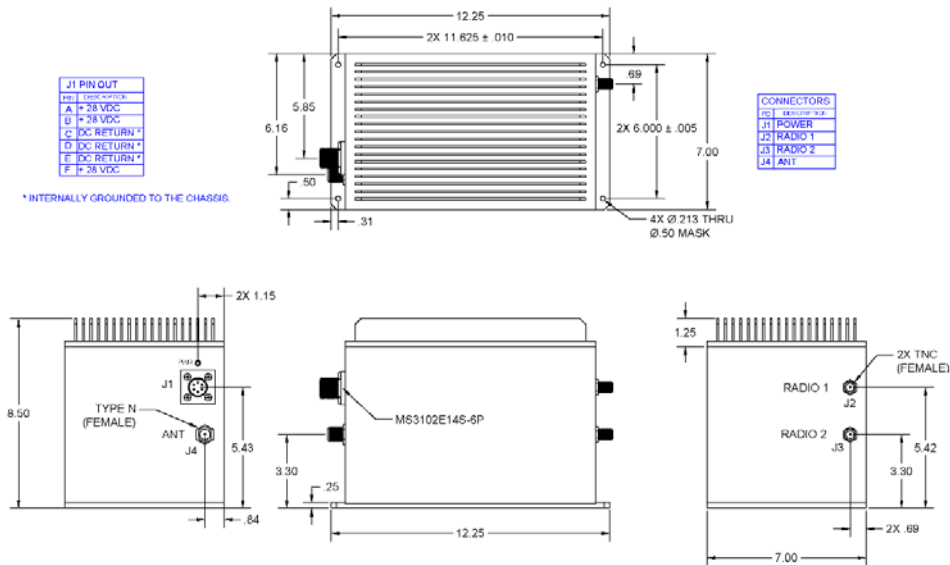




FAM-142A

DUAL BIDIRECTIONAL AMPLIFIER

UHF SATCOM DUAL RADIO INDEPENDENT OPERATION



ELECTRICAL SPECIFICATIONS

TRANSMIT MODE (Note 1)

Frequency Range (Passband)	291-318.3 MHz
Gain	14 dB max. (Note 3)
VSWR	2.0:1 max.
RF Power Output	100 W CW nom. (Note 4)
Stopband	
0-235 MHz	85 dB min.
235-270 MHz	60 dB min.
350-400 MHz	80 dB min.
400-3000 MHz	90 dB min.
Isolation, 291-318.3 MHz: J2 to J3	40 dB nom.

NOTES:

1. RADIO 1 (J2) to ANT (J4) and RADIO 2 (J3) to ANT (J4)
2. ANT (J4) to RADIO 1 (J2) and/or ANT (J4) to RADIO 2 (J3)
3. Dependent on the input drive level, see Note 4
4. 100 W CW OUTPUT per radio, @ 5 W INPUT

RECEIVE MODE (Note 2)

Frequency Range (Passband)	243-270 MHz
Gain	24 dB min., 28 dB max.
Gain Variation	2 dB max.
Noise Figure	2.5 dB max.
VSWR	2.0:1 max.
Max. Input Signal (protection level)	1 W CW
Rejection	
0-218 MHz	90 dB min.
218-228 MHz	80 dB min.
281-290 MHz	80 dB min.
290-3000 MHz	90 dB min.
Isolation, 243-270 MHz: J2 to J3	20 dB min.
Input @ 1 dB gain compression	-16 dBm nom.

GENERAL CHARACTERISTICS

Size (excluding connectors)	12.25" x 7.0" x 8.5"
Weight	23 pounds
Power Specifications	
Voltage	+24 to +32 VDC
Current (2 Radios TX)	36A max.
Current (1 Radio TX)	18A max.
Current (2 Radios RX)	0.5A max.
Connectors	
Radio 1, Radio 2	Type TNC Female
Antenna	Type N Female
Power	MS3102E14S-6P

REV 5/24/2023