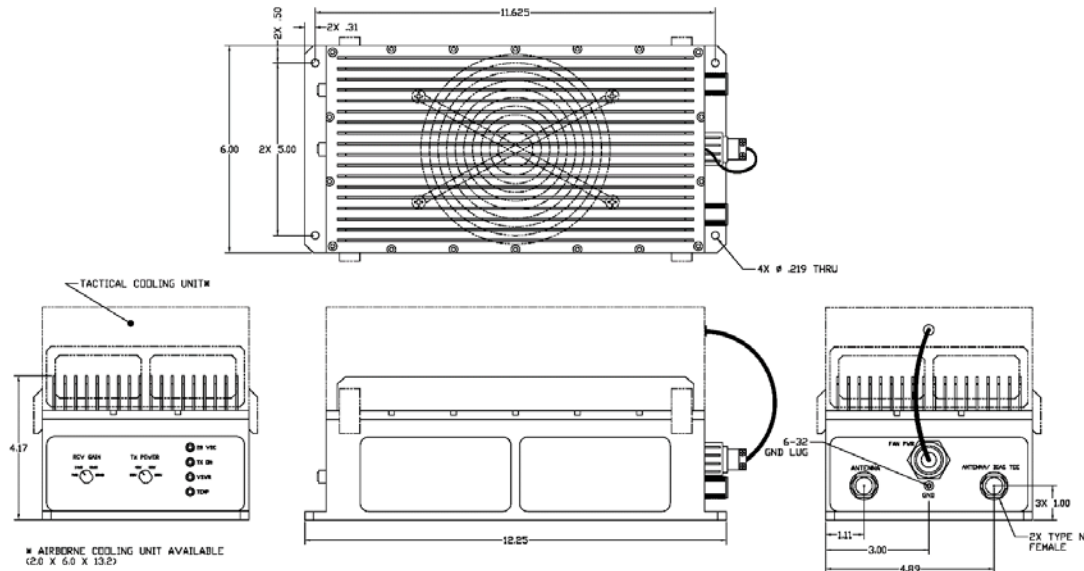




RPA-SAT-100D

Remote Amplifier System



ELECTRICAL SPECIFICATIONS

RECEIVE CHARACTERISTICS

Frequency Range	243-270 MHz
Gain, nominal	7, 14, 21, 28 dB
Out of Band Rejection	
0-200 MHz	> 50 dB
291-2000 MHz	> 50 dB
Noise Figure	
7 dB gain	3.5 dB max.
14, 21, or 28 dB gain	2.5 dB max.

TRANSMIT CHARACTERISTICS

Frequency Range	291-318.3 MHz
Out of Band Rejection, 243-270 MHz	70 dB min.
Transmit Power, ± 1.0 dB at each setting*	
25 W setting	44 dBm
40 W setting	46 dBm
65 W setting	48 dBm
100 W setting	50 dBm
Radio Input Power, Operational	0.5 to 5.0 W
Radio Input Power, Protection (30 seconds max.)	25 W max.
Harmonics	-60 dBc
VSWR	
Typical	1.5:1
Maximum	2.1:1**

*Nominal 2 dB increment steps

** higher with transmitter off

GENERAL CHARACTERISTICS

Remote Distance	Up to 163 ft. with RG-214/U
Supply Voltage	+24 to +32 VDC
Supply Current	
Receive	600 mA typ.
Transmit, at 100W	14 A max.
Protection modes	VSWR and Temperature
Operating Temperature	-20°C to +55°C
Environment	Weatherproof, except cooling unit
Size (inches)and Weight	
Amplifier (base unit)	12.25" x 6.0" x 4.25", 12 lbs. max.
Amplifier w/ Tactical Cooling	12.25" x 6.0" x 7.0", 15 lbs. max.

REV: 11/14/2019