

The Crescend 10234 Compact Power Amplifier (CPA) is a standard product offering that meets the rigorous Military requirements for legacy and next generation waveforms. The small, lightweight design is an ideal choice for airborne, soldier carry, and ground vehicle applications.

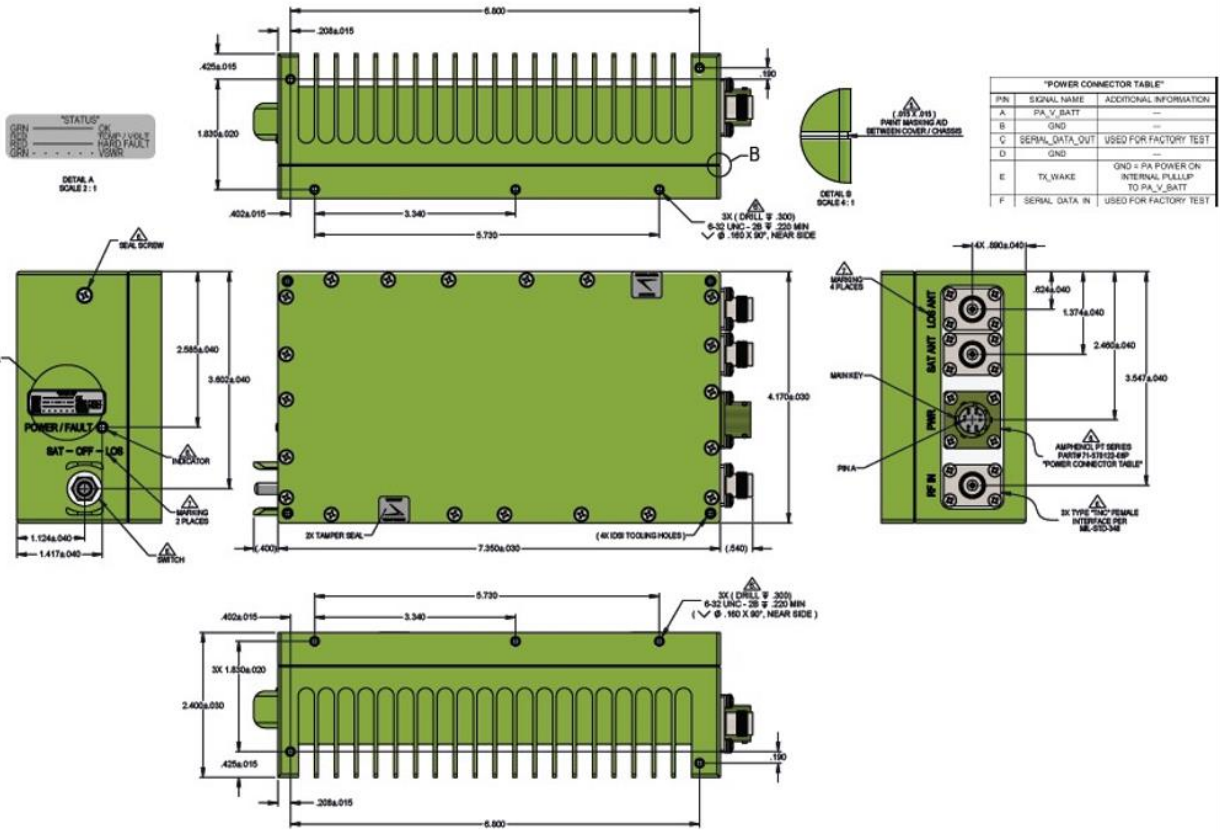
Performance Advantages

- Small Size, Weight, and Power
- Addresses Airborne and Ground platforms
 - Rotary/Fixed wing
 - Manpack – pull and jerk radios
- Designed to support TSM, SRW, WNW, SINCGARS, ANW2, HAVEQUICK I/II, P25
- 30-512MHz (25W), Failsafe Bypass
- DC input from 10-36V, 85W nominal power consumption
- No Interface required, Input frequency sensing
- Small form factor: 8.3"L x 2.4"W x 4.2"H w/connectors
- Weight 3lbs
- Automatic Leveling Control
- VSWR sensing
- Environmentally sealed design
- Tested to MIL-STD-810, 461, and 1275 requirements



Specifications

Frequency Range	30MHz-512MHz Failsafe Bypass
RF Input Power	0.5 W minimum 10W maximum
RF Output Power	30-512 MHz 25W
Duty Cycle	100% continuous
Harmonics and Spurious	CE106 compliant
Output Load Impedance	50 ohm nominal
Input Port VSWR	1:5:1 (50 ohms)
Load VSWR	3.0:1 max VSWR Graceful output power reduction >3:1
Rx Gain	15dB +/- 2dB (30-190MHz) 5dB +/- 1dB (190-512MHz), default. Up to 15dB, factory configurable or selectable via interface
Rx Noise Figure	≤ 6 dB
Rx Input 3rd Order Intercept Point (IIP3)	≥ +10dBm
DC Input Voltage	10- 36 Vdc
DC Power Consumption	85W nominal
Environmental	-40C to +60C MIL-STD-810G/461F/1275D/704F
Interfaces provided (Frequency sensing, no interface required)	Customizable : RS 232, 422, 485, LVDS *Ethernet in development
Connector Interface	N, TNC, as specified
Chassis Finish	Olive Green CARC, Black anodized/powdercoat, or chemical conversion optional



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