

The Crescend Wideband Power Amplifier product offering is a small, lightweight, design that is an ideal choice for airborne, soldier carry, and ground vehicle applications requiring wide operational bandwidth.

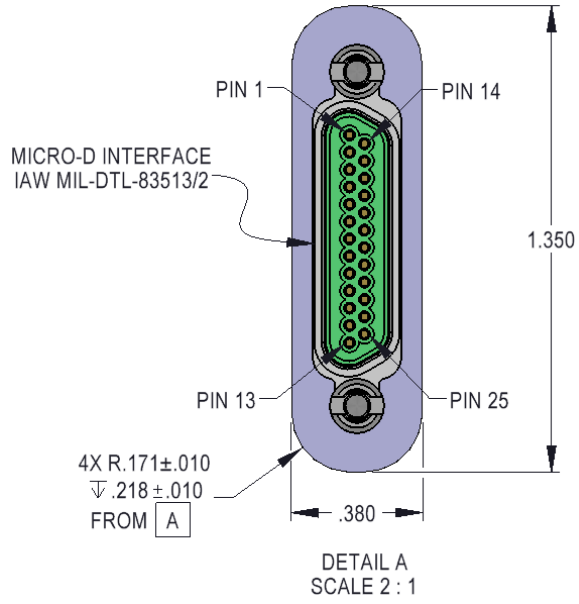
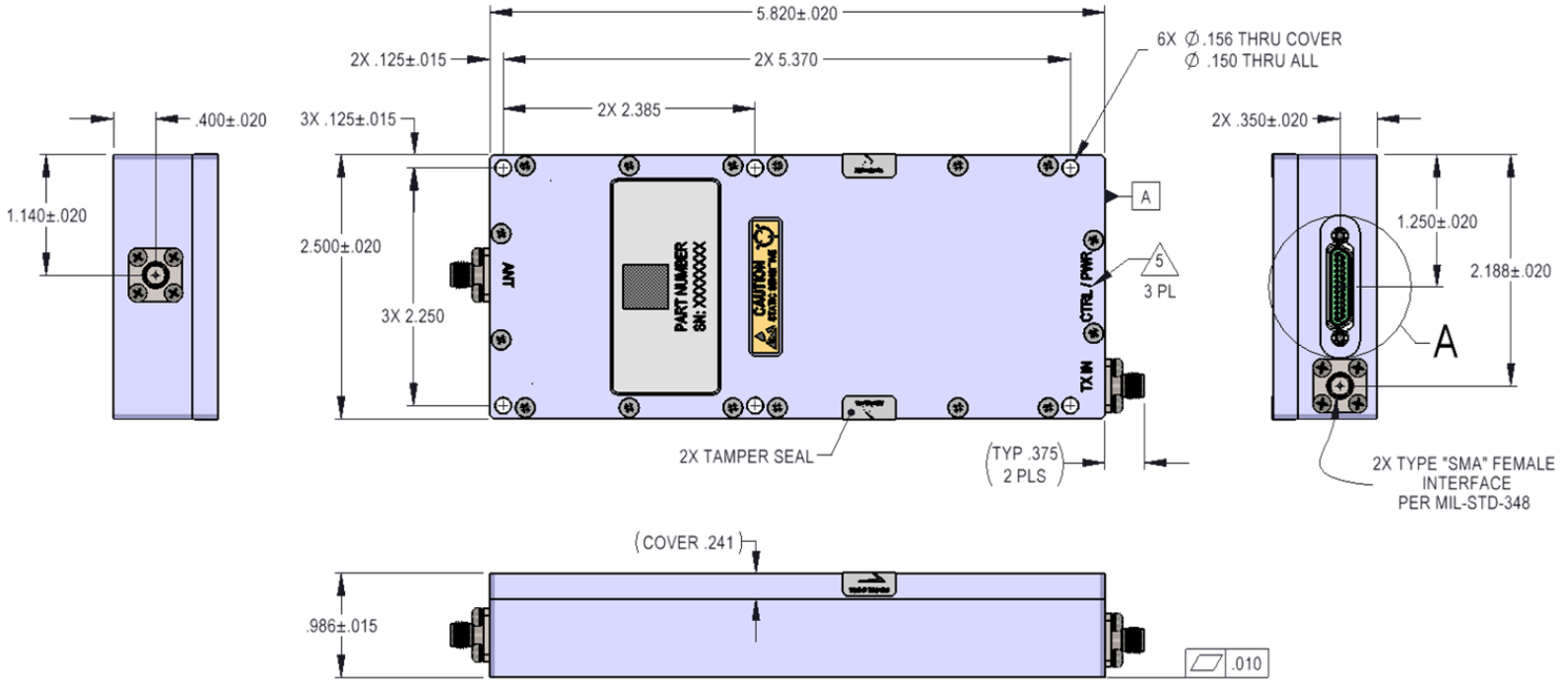
**Performance Advantages**

- Small Size, Weight, and Power
- 20-6000MHz, 20/10W nominal RF Power Out
- DC input from 20-34V, 85W nominal power consumption, 125 W max
- Small form factor: 10258-50200 – 6.0”L x 2.5”W x 1”H
- Weight 0.65lbs
- Integrated Alarms
- Alternate Packaging and Sealing options available
- Designed to support MIL-STD-810 requirements



**Specifications**

<b>Frequency Range</b>	20MHz-6000MHz
<b>RF Input Power</b>	-10dBm nominal
<b>RF Output Psat(typ)</b>	20W 20-1450MHz, 10W 1450-6000MHz
<b>Duty Cycle</b>	100% continuous
<b>Harmonics and Spurious</b>	2 <sup>nd</sup> /3 <sup>rd</sup> <-11dBc
<b>Output Load Impedance</b>	50 ohm nominal
<b>Input Port VSWR</b>	2:1 (50 ohms)
<b>DC Input Voltage</b>	10- 34 Vdc
<b>DC Power Consumption</b>	85W nominal
<b>Environmental</b>	-20C to +85C, Baseplate (Capable of operation to -40C with modified envelope dimensions)
<b>I/O Interfaces (RS232/UART/LVDS)</b>	Monitor and Control port
<b>I/O Discrete (TTL)</b>	Blanking
<b>*Ethernet</b>	In development, 2Q2024
<b>Connector Interface</b>	Refer to Sh 2
<b>Chassis Finish</b>	Chemical Conversion Coating over 6061 Aluminum
<b>Options</b>	Rx path with LNA and Limiter Protection available, contact Crescend



"CONTROL / POWER CONNECTOR PIN-OUT TABLE" (CTRL/PWR)				
MICRO-D, RECEPTCLE / FEMALE SOCKETS, 25 PIN				
PIN	SIGNAL NAME		PIN	SIGNAL NAME
1	+VDC IN		14	+VDC IN
2	+VDC IN		15	+VDC IN
3	DC RETURN		16	DC RETURN
4	DC RETURN		17	DC RETURN
5	DC RETURN		18	N/A
6	N/A		19	N/A
7	N/A		20	PA_BLANK_TTL
8	N/A		21	GND
9	N/A		22	N/A
10	CALPORT_TX_3.3V		23	N/A
11	CALPORT_RX_3.3V		24	N/A
12	GND		25	N/A
13	GND			



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