

**DESCRIPTION**

This class A GaAs module is designed for both military and commercial applications. It is capable of supporting any signal type and modulation format, including but not limited to 3-4G telecom, WLAN, OFDM, DVB, and CW/AM/FM. The latest device technologies and design methods are employed to offer high power density, efficiency, and linearity in a small, lightweight package.

**FEATURES**

- Over / Under / Reverse Voltage Protection
- Forward Power Measurement
- Reflected Power Measurement
- High Speed On/Off Control
- Temperature Output

**APPLICATIONS**

- Military / Commercial Data links
- Telecommunications
- BTS / Repeaters / DAS
- Test and Measurement
- General Purpose Lab Use

**RF / ELECTRICAL**

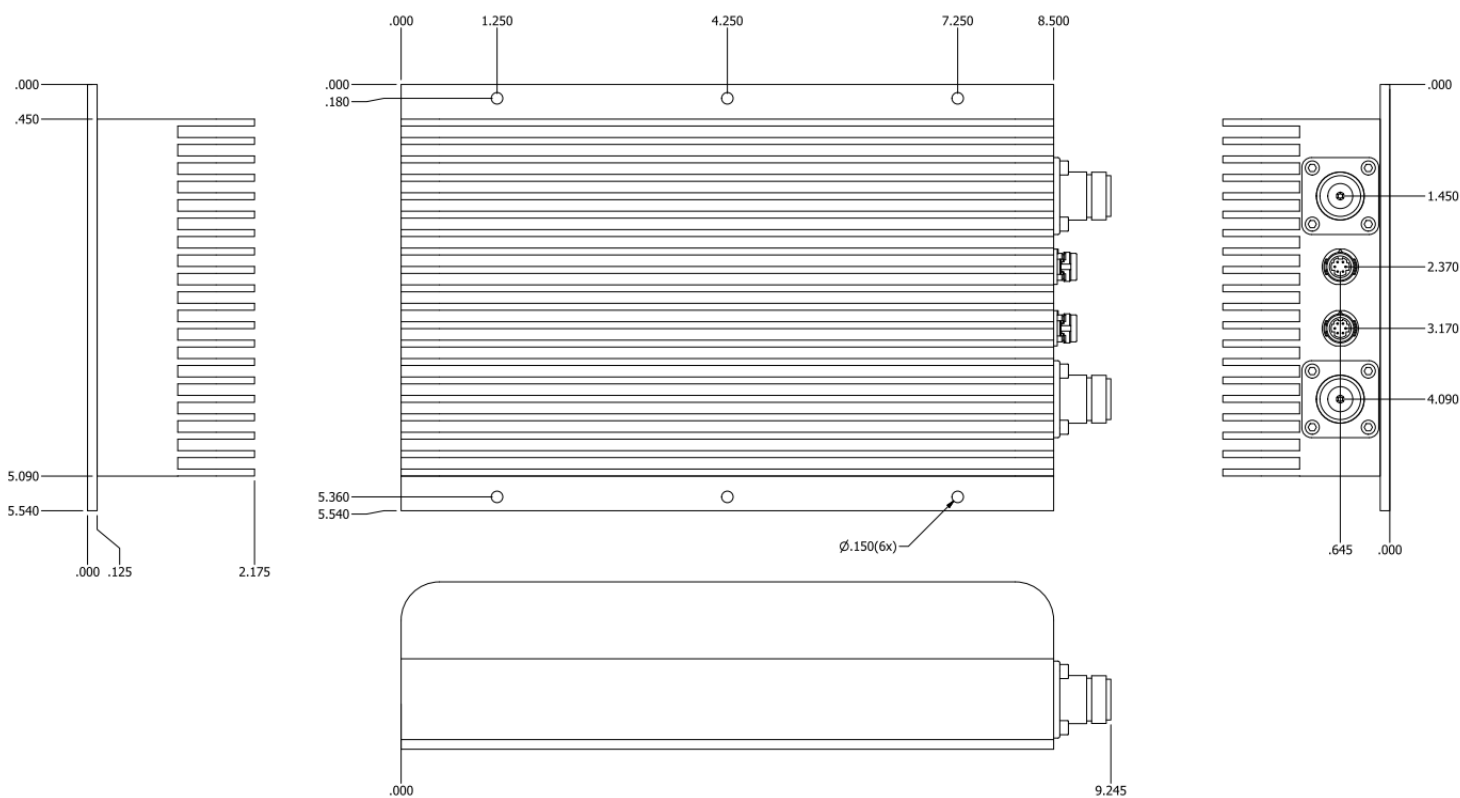
| PARAMETER                   | MIN                                     | TYP  | MAX  | UNIT |
|-----------------------------|-----------------------------------------|------|------|------|
| Operating Frequency         | 3400                                    |      | 3600 | MHz  |
| P1dB Power Output           | 46.5                                    | 47.0 |      | dBm  |
| PSat Power Output           | 47.0                                    | 47.5 |      | dBm  |
| Gain                        | 46.0                                    | 47.0 |      | dB   |
| Gain Flatness               |                                         | 0.5  | 0.8  | dB   |
| OIP3                        |                                         | 60.0 |      | dBm  |
| OIP3 Measurement Conditions | 2 Tone @36.5 dBm / Tone, 10 MHz Spacing |      |      | --   |
| Input Return Loss           | 14                                      | 18   |      | dB   |
| Operating Voltage           | 12                                      |      | 14   | VDC  |
| Current Draw                |                                         | 15.0 | 17.0 | A    |
| Quiescent Current Draw      |                                         | 16.0 |      | A    |
| Switching Time              |                                         |      | 1.0  | uS   |

**MECHANICAL**

| PARAMETER                      | VALUE                                     | UNIT |
|--------------------------------|-------------------------------------------|------|
| Dimensions (L x W x H)         | 8.5x5.54x2.175                            | in.  |
| RF Connectors (Input / Output) | N-F / N-F                                 | --   |
| DC / Control Connector         | Waterproof Circular Locking               | --   |
| Cooling                        | Integral Heatsink – Fan options available | --   |
| Mounting                       | #6 Thru-Holes                             | --   |

**ENVIRONMENTAL / PROTECTIONS**

| PARAMETER                        | MIN                            | MAX  | UNIT |
|----------------------------------|--------------------------------|------|------|
| Operating Temp. (Housing Temp.)  | -40                            | +85  | °C   |
| Storage Temp Range               | -60                            | +100 | °C   |
| Weatherproofing                  | IP67 Equivalent                |      | --   |
| Altitude                         | 0-30,000                       |      | ft.  |
| Shock / Vibration                | MIL-STD-810 and equivalents    |      | --   |
| Max RF Input                     | 3.5                            |      | dBm  |
| Load VSWR @ P1dB                 | Open / Short Output Protection |      | --   |
| PA Baseplate Shutoff Temperature | 85                             |      | °C   |

**OUTLINE DRAWING**


**DC / CONTROL PINS**

| PIN LABEL | NAME | DESCRIPTION                                          |
|-----------|------|------------------------------------------------------|
| A1        | GND  | Ground                                               |
| A2        | +VDC | Supply Voltage - Range Specified in Datasheet        |
| 1         | TEMP | Temp Monitor: Temp in DegC = $(V_{out} - 0.5V) / 10$ |
| 2         | I/O  | On / Off Control (+5V = On / 0V = Off)               |
| 3         | REV  | Reflected Power Measurement -                        |
| 4         | GND  | Detector Ground                                      |
| 5         | FWD  | Forward Power Measurement -                          |