

### FEATURES

- Wide Bandwidth
- Low Power Consumption
- Low Noise Figure
- Miniature Sizes for drop-In Assembly
- Hermetically Sealed Package for Military Application

### APPLICATIONS

- Microwave Radio & VSAT
- Military & Space
- Test Instrumentation
- Fiber Optics



### ELECTRICAL SPECIFICATIONS@25°C:

| Parameter                  | Min | Typical | Max  | Units |
|----------------------------|-----|---------|------|-------|
| Frequency Range            | 5.2 |         | 5.8  | GHz   |
| Small Signal Gain          | 35  |         |      | dB    |
| Small Signal Gain Flatness |     |         | ±1.5 | dB    |
| RF Input Drive             |     |         | +10  | dBm   |
| Output Power 1dB GCP       | +40 | 40.5    |      | dBm   |
| Output Power Saturated     |     | 41      |      | dBm   |
| Harmonics                  |     |         | -50  | dBc   |
| Input Return Loss          |     | 15      | -10  | dB    |
| output Return Loss         |     | 15      | -10  | dB    |
| DC Power Supply            |     | 12      |      | Volt  |
| Current                    |     |         | 5    | A     |

### ENVIRONMENTAL RATINGS:

| Parameter                          | Min   | Typical | Max   | Units |
|------------------------------------|-------|---------|-------|-------|
| Max Input power                    |       |         | +25   | dBm   |
| Operating Temperature              | -25   |         | +55   | °C    |
| Non-operating Temperature          | -65   |         | +125  | °C    |
| Relative humidity (non-condensing) |       | 95      |       | %     |
| Altitude (MIL-STD-810F)            | 10000 |         | 30000 | feet  |
| Shock / Vibration (MIL-STD-810F)   |       | Airbone |       |       |

### PROTECTIONS:

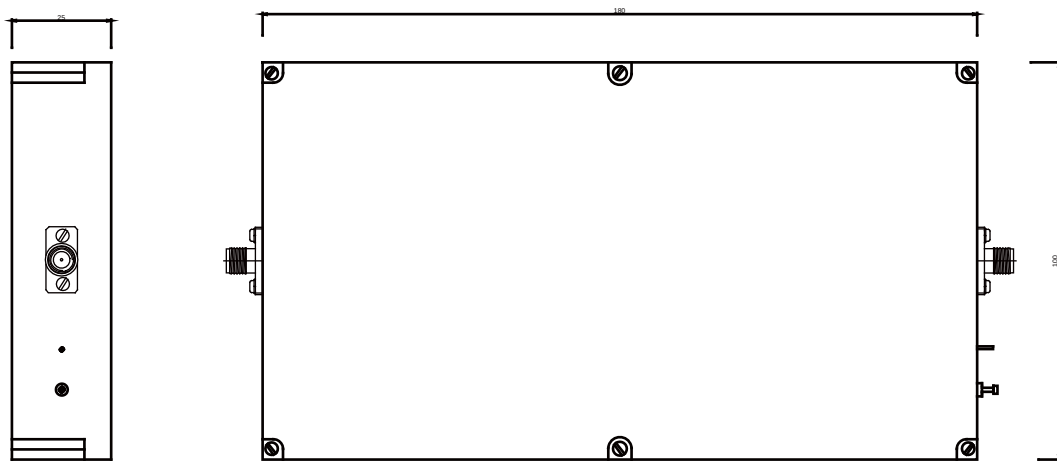
|                       |                                                                                                        |     |
|-----------------------|--------------------------------------------------------------------------------------------------------|-----|
| Input Power Overdrive | +10 dBm                                                                                                | Max |
| Load VSWR             | ∞ @ all load phase & amplitude for duration of 1 minute<br>3:1 @ all load phase & amplitude continuous | Nom |
| Thermal Overload      | 85°C shutdown                                                                                          | Max |

**MECHANICAL SPECIFICATIONS:**

| Parameter            | Value      | Limits | Units      |
|----------------------|------------|--------|------------|
| Dimensions           | 180*100*25 | Max    | Millimeter |
| Weight               | TBD        | Max    | gram       |
| RF Connectors Input  | SMA-F      |        |            |
| RF Connectors output | SMA-F      |        |            |
| Impedance            | 50         |        | ohms       |

**INTERFACE CONNECTION:**

| Pin # | Description | Specifications                                                        |
|-------|-------------|-----------------------------------------------------------------------|
| 1     | GND         | Ground                                                                |
| 2     | +12 VDC     | +11 to $\pm 1$ VDC                                                    |
| 3     | Shutdown    | Amplifier Enable: TTL "Low" or Open    Am7plifier Disable: TTL "High" |

**OUTLINE DRAWING(mm):****PM3**