

## Features

- ◆ Broadband Power Amplifier
- ◆ Class AB design
- ◆ Built-in protection circuits
- ◆ High reliability and ruggedness
- ◆ 50 ohm input/output impedance



## Applications

- ◆ Test Equipment
- ◆ Communication Systems

## Electrical Specifications: 50Ω, 25°C

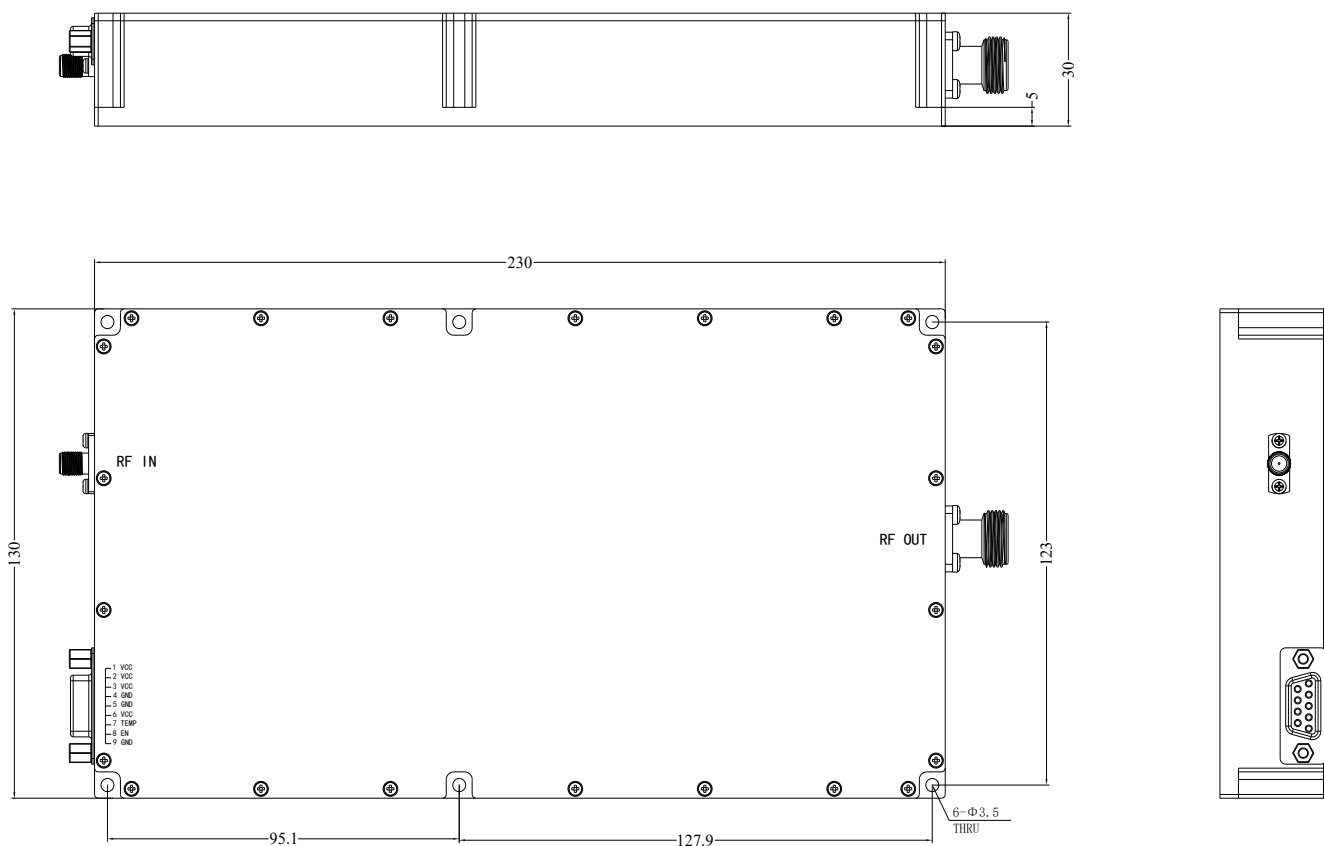
| Parameter                                | Min | Typ   | Max | Units |
|------------------------------------------|-----|-------|-----|-------|
| Operating Frequency                      | 1.5 |       | 30  | MHz   |
| RF Power Output CW                       | 58  | 59    |     | dBm   |
| Output Power for 1 dB Compression (P1dB) | 54  | 55    |     | dBm   |
| Gain                                     | 68  | 70    |     | dB    |
| Gain Flatness                            |     | ± 1.5 | ± 2 | dB    |
| Input VSWR                               |     | 1.5   |     | :1    |
| Harmonics                                |     | -15   | -7  | dBc   |
| Spurious                                 |     |       | -60 | dBc   |
| Supply Voltage                           | 38  | 40    | 42  | V     |
| Supply Current(VCC=40V)                  |     | 2.5   | 30  | A     |
| Input RF drive level without damage      |     |       | 0   | dBm   |

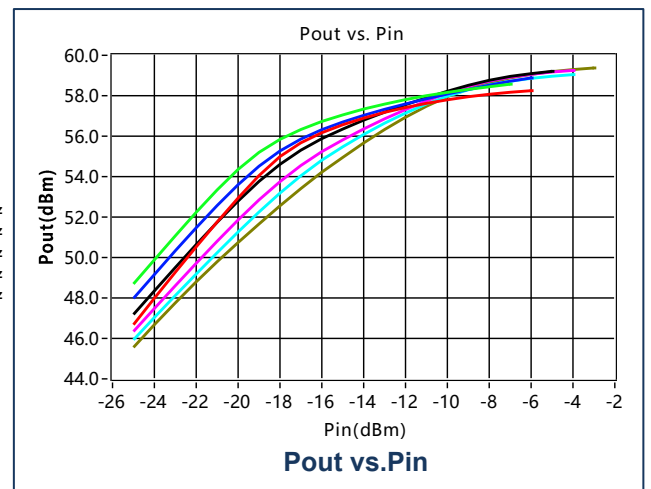
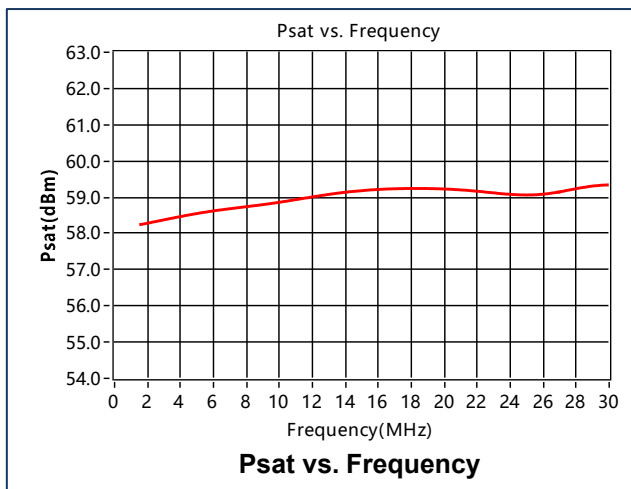
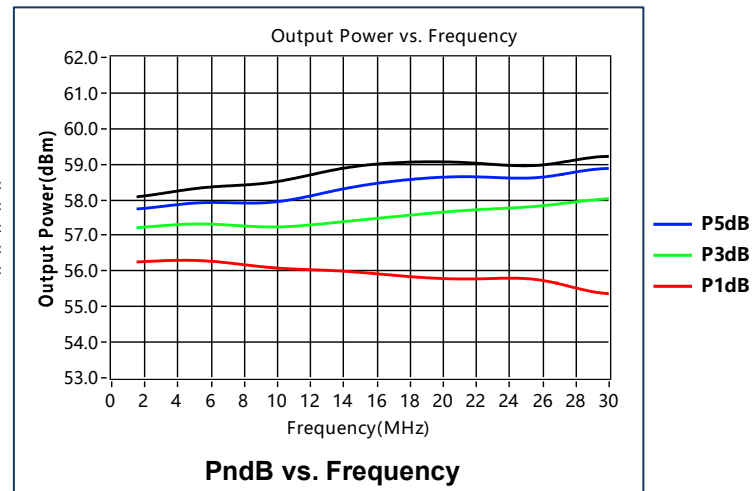
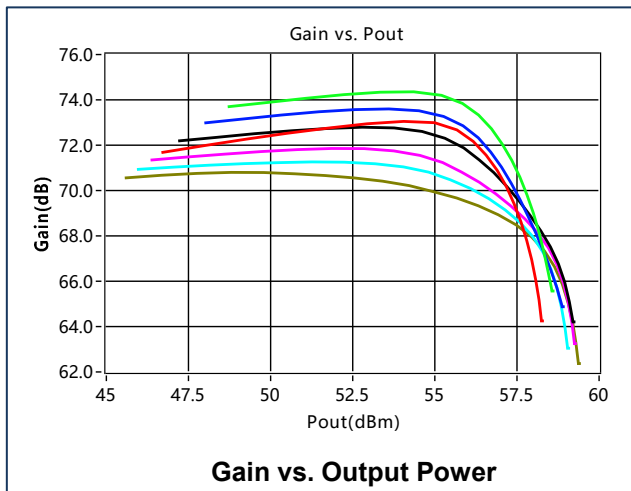
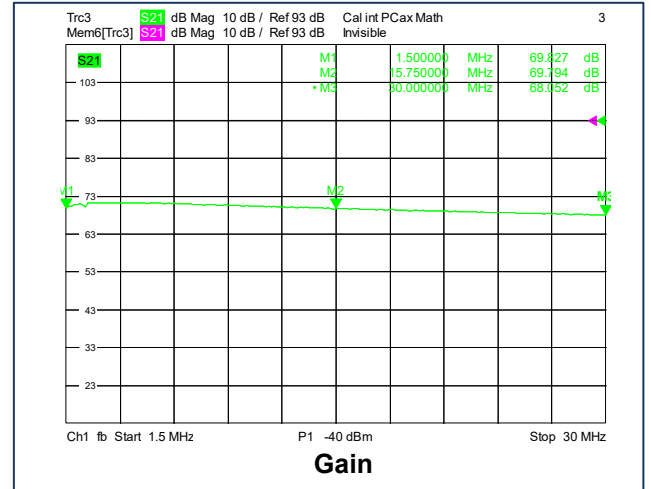
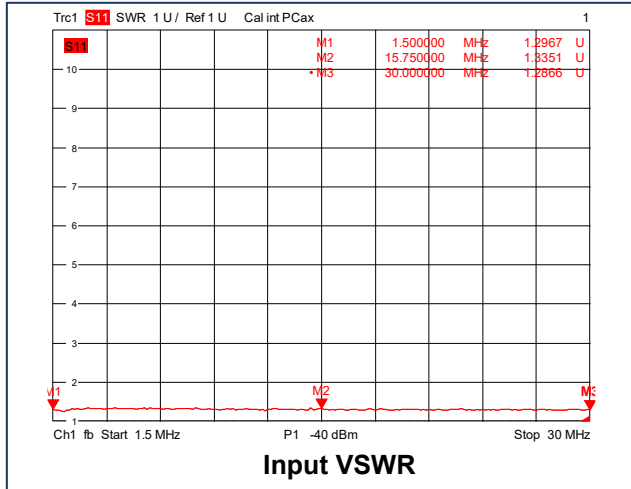
## Environmental Specifications

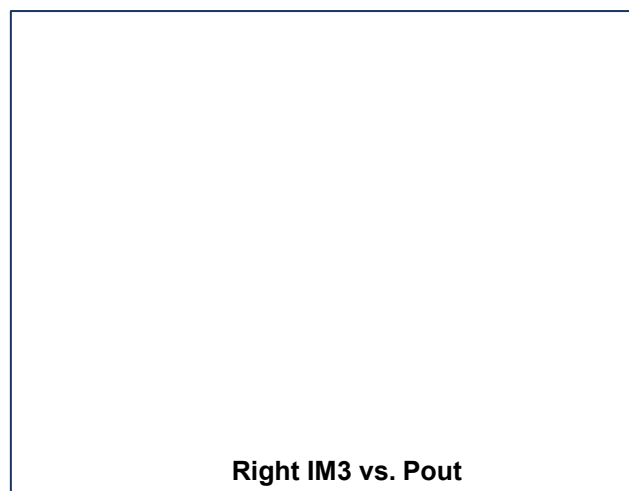
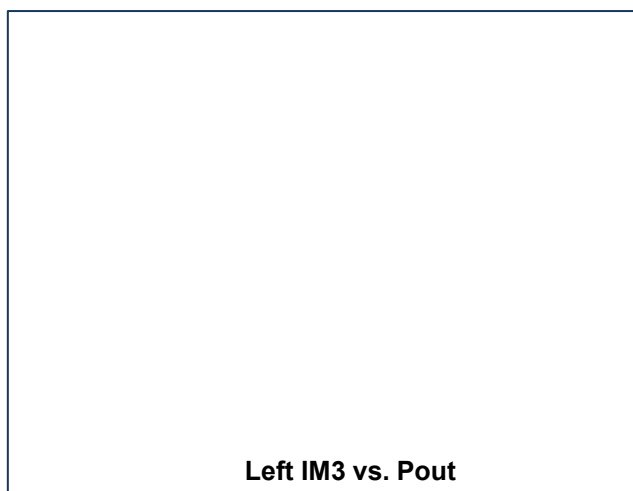
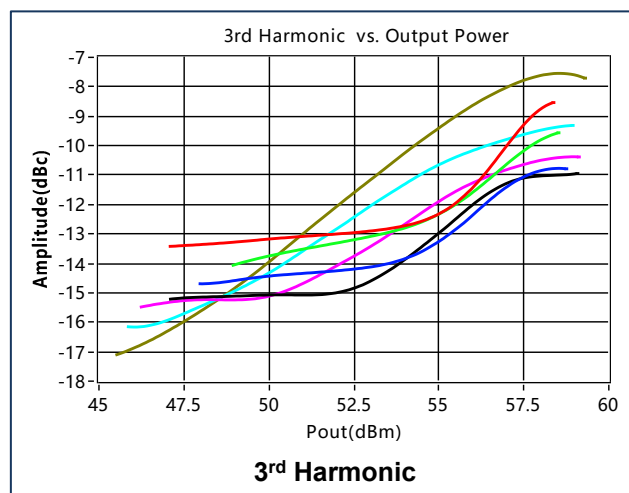
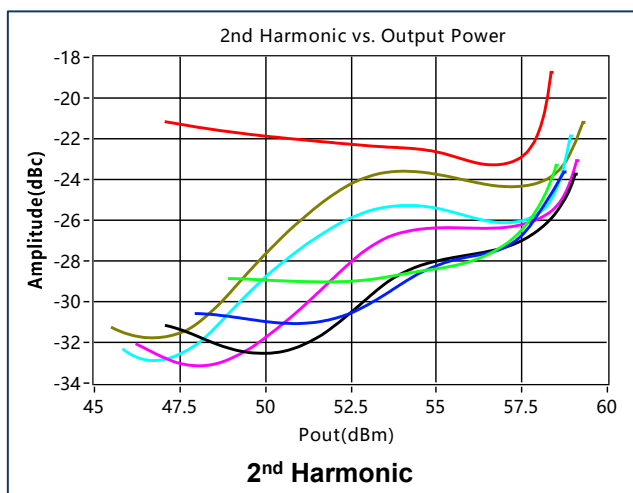
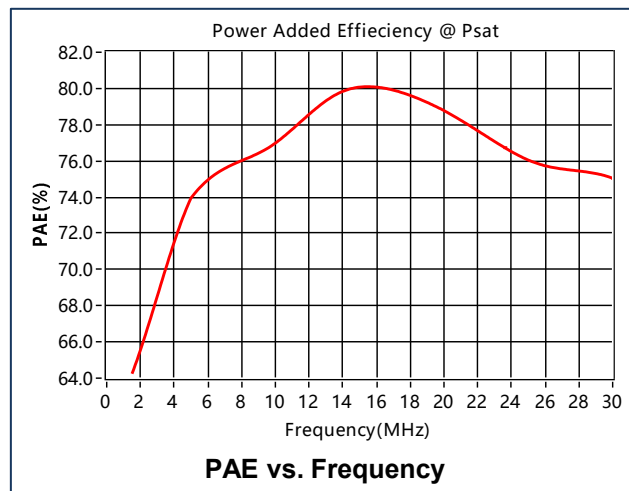
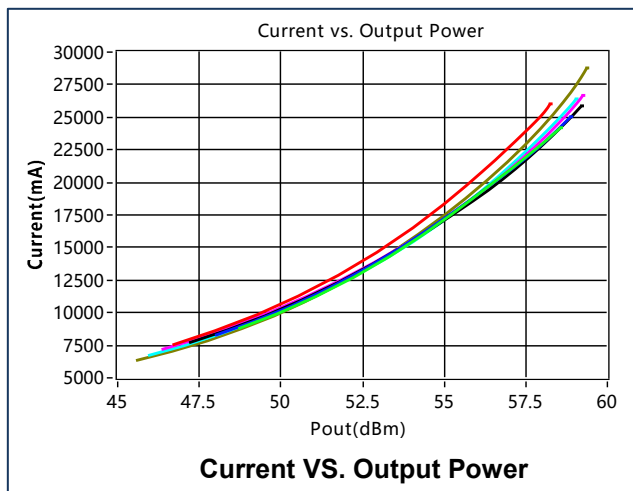
|                            |                 |
|----------------------------|-----------------|
| Operating Case Temperature | -30°C to +70°C  |
| Storage Temperature        | -50°C to +105°C |

## Mechanical Specifications

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Dimensions<br>(Excluding Connectors) | 230 X 130 X 30 mm               |
| RF Connectors                        | SMA-Female/N-Female             |
| DC Interface Connector               | D-SUB-9                         |
| Weight                               | 1.8kg                           |
| Cooling                              | Forced air required<br>(Option) |







## DC Interface Connector: D-sub, 9-Pin, Female

| Pin # | Name | Function                                                                                                                                                                                                                                             |
|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | VDD  | +38.0-42.0VDC                                                                                                                                                                                                                                        |
| 2     | VDD  | +38.0-42.0VDC                                                                                                                                                                                                                                        |
| 3     | VDD  | +38.0-42.0VDC                                                                                                                                                                                                                                        |
| 4     | GND  | Ground                                                                                                                                                                                                                                               |
| 5     | GND  | Ground                                                                                                                                                                                                                                               |
| 6     | VDD  | +38.0-42.0VDC                                                                                                                                                                                                                                        |
| 7     | TEMP | When the temperature of the case exceeds 70 °C, the power amplifier will turn off and this pin will be pulled high. If the temperature of case drops to 60 °C, the power amplifier will return to normal operation, and this pin will be pulled low. |
| 8     | EN   | Amplifier Enable: TTL Logic High (5V) (Internally Pulled-High)<br>Amplifier Disable: Short to ground                                                                                                                                                 |
| 9     | GND  | Ground                                                                                                                                                                                                                                               |