# OSC1150

## GaAs MMIC Power Amplifier Module
**9～11GHz 45dBm** **Rev 1.1**

### Features

- Frequency：9～11GHz
- Gain：22.5dB
- $OP_{-3}dB$：45dBm
- Supply Voltage：+15V
- Built-in DC/DC converter

### Typical Applications

- Microwave radio
- Telecommunication
- Test instrumentation

### General Description

OSC1150 is a power amplifier module with a typical small signal gain of 22.5dB and a nominal $OP_{-3}dB$ of +45dBm across the frequency range of 9 to 11GHz.

### Image

### Electrical Performance（$T_A$=25℃,$V_D$=15V,$Z_O$=50Ω）

| Parameter | Min. | Typ. | Max. | Units |
|---|---|---|---|---|
| Frequency Range | | 9～11 | | GHz |
| Small Signal Gain | 20 | 22.5 | 27 | dB |
| Noise Figure | — | 10.5 | — | dB |
| Output Power for 3 dB Compression ($OP_{-3}dB$) | 45 | — | — | dBm |
| Input VSWR | — | 1.5 | 2 | :1 |
| Output VSWR | — | 1.5 | 2 | :1 |
| Reverse Isolation | — | -50 | — | dB |
| Supply Voltage | 15 | — | 16 | V |
| Supply Current | — | — | 8.5 | A |
| Max Input Power | — | — | 27 | dBm |
| Non Harmonics Spurious | — | 62 | — | dBc |
| Harmonics* | — | 18 | — | dBc |

*At Pout=43.5dBm

**Load Standing Wave Ratios in excess of 2:1 may cause device damage

## Mechanical Specifications

| Parameter | |
|---|---|
| Input/Output | SMA-F/WR-90 |
| Bias | Pin |
| Case Material | Aluminum alloy |
| Weight | 445g |
| Cooling | External Heatsink ,Forced air required |

## Mechanical Outline

All dimensions are in millimeters