



- PIN:
- ① Pin : RF INPUT
 - ② VBB : BASE BIAS SUPPLY
 - ③ VCC1: 1st. DC SUPPLY
 - ④ VCC2: 2nd. DC SUPPLY
 - ⑤ Po : RF OUTPUT
 - ⑥ GND: FIN

ABSOLUTE MAXIMUM RATINGS (Tc=25°C unless otherwise noted)

| Symbol | Parameter | Conditions | Ratings | Unit |
|-----------|----------------------------|----------------------|-------------|------|
| Vcc | Supply voltage | ZG=ZL=50 , VBB=8.5V | 17 | V |
| VBB | Bias voltage | ZG=ZL=50 , Vcc 13.2V | 9 | V |
| Icc | Total current | ZG=ZL=50 | 6 | A |
| Pin (max) | Input power | ZG=ZL=50 , Vcc 13.2V | 300 | mW |
| PO (max) | Output power | ZG=ZL=50 | 25 | W |
| Tc (OP) | Operation case temperature | ZG=ZL=50 | -30 to +110 | °C |
| Tstg | Storage temperature | | -40 to +110 | °C |

Note. Above parameters are guaranteed independently.

ELECTRICAL CHARACTERISTICS (Tc=25°C unless otherwise noted)

| Symbol | Parameter | Test conditions | Limits | | Unit |
|--------|--------------------------|--|---------------------------|-----|--------|
| | | | Min | Max | |
| f | Frequency range | | 380 | 400 | MHz |
| Po | Output power | Pin=200mW, VCC=12.5V, VBB=9V, ZG=ZL=50 | 13 | | W |
| η | Total efficiency | | 15 | | % |
| 2fo | 2nd. harmonic | VCC=12.5V, VBB=9V, PO=5W (Pin:controlled), ZG=ZL=50 | | -25 | dBc |
| 3fo | 3rd. harmonic | | | -30 | dBc |
| in | Input VSWR | | | 2.8 | - |
| Gp | Power gain | | 28 | | dB |
| IMD3 | 3rd. internal modulation | VCC=12.5V, VBB=9V, PO (AVE)=5W | | -25 | dBc |
| IMD5 | 5th. internal modulation | (Pin:controlled) 2tone, f=10kHz, ZG=ZL=50 | | -32 | dBc |
| - | Load VSWR tolerance | VCC=15.2V, VBB=9V, PO=13W (Pin:controlled) ZG=50 , Load VSWR=4:1 (All phase) | No degradation or destroy | | - |
| - | Stability | Pin=0-300mW, VCC=10-16V, VBB=9V, PO 20W, I 3.0 (All phase), ZG=50 | No parastic oscillation | | Note 1 |

Note. Above parameters, ratings, limits and test conditions are subject to change.

Note 1. Stability is tested by sampling test (10pcs/Lot)

TYPICAL PERFORMANCE DATA

