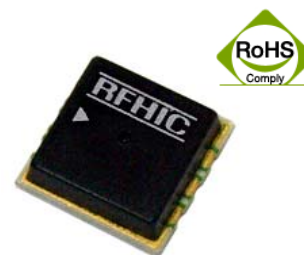


Product Features

- GaAs MESFET + InGaP HBT
- No matching circuit needed
- High IP3
- Surface Mount Hybrid Type & Reel Packing
- Small Size
- Alumina Substrate
- Pb Free / RoHS Standard

Applications

- PCS Repeater
- RF Sub-Systems
- Base Station



Package : CP-16B

Descriptions

It is one of the smallest matched Amplifiers.

This family of High gain Linear Amplifier has superior performance comes with a modest price tag

Electrical Characteristics

Absolute Minimum and Maximum Ratings

| PARAMETER | UNIT | MIN | MAX |
|---------------------|------|-----|------|
| Device Voltage | VDC | | +6 |
| RF Input Power | dBm | | +7 |
| Storage Temperature | °C | -40 | +125 |

Operating Ranges

| PARAMETER | UNIT | MIN | TYP | MAX |
|---------------------|------|------|-----|------|
| Operating Frequency | MHz | 2500 | - | 2700 |
| Device Voltage | VDC | - | +5 | |

Electrical Specifications

(Ta=+25 °C, VDD=+5V, F=2600MHz)

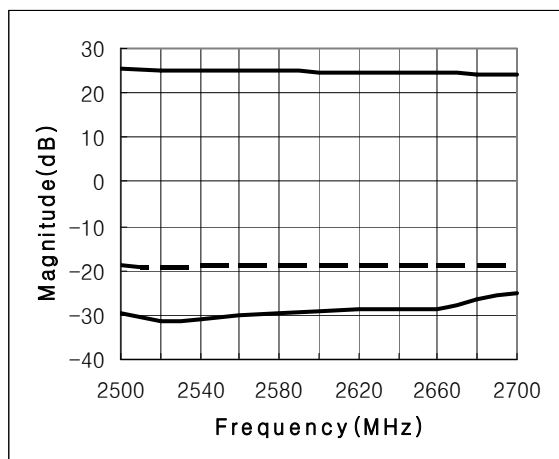
| PARAMETER | UNIT | MIN | TYP | MAX |
|-------------------------|------|-----|------|-----|
| Gain | dB | | 24 | |
| Input Return Loss | dB | | -28 | |
| Output Return Loss | dB | | -19 | |
| Output IP3 | dBm | 38 | 41.5 | |
| 1dB Compression Point | dBm | | 21.5 | |
| Noise Figure | dB | | 5.6 | |
| DC Current | mA | | 200 | |
| Supply Voltage | VDC | | +5 | |
| Thermal Resistance(Rth) | °C/W | | | |

OIP3 is measured with two tones, at an output power of 10dBm/tone separated by 1MHz

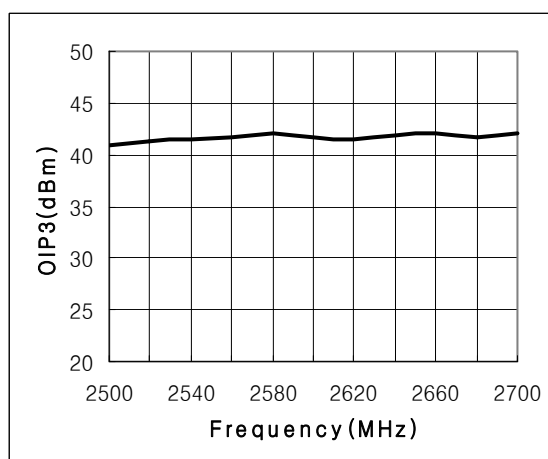
Performance Charts ($V_d=5V$, $I_d=200mA$, $T_c=25^\circ C$)

| Frequency | MHz | 2500 | 2540 | 2580 | 2620 | 2660 | 2700 |
|--------------|-----|------|------|------|------|------|------|
| Gain | dB | 25.2 | 24.9 | 24.8 | 24.4 | 24.4 | 24.1 |
| S11 | dB | -29 | -31 | -29 | -28 | -27 | -25 |
| S22 | dB | -19 | -19 | -19 | -19 | -19 | -19 |
| OIP3 | dBm | 41 | 41.5 | 42 | 41.5 | 42 | 42 |
| P1dB | dBm | 21.5 | 21.4 | 21.5 | 21.5 | 21.4 | 21.5 |
| Noise Figure | dB | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 | 5.6 |

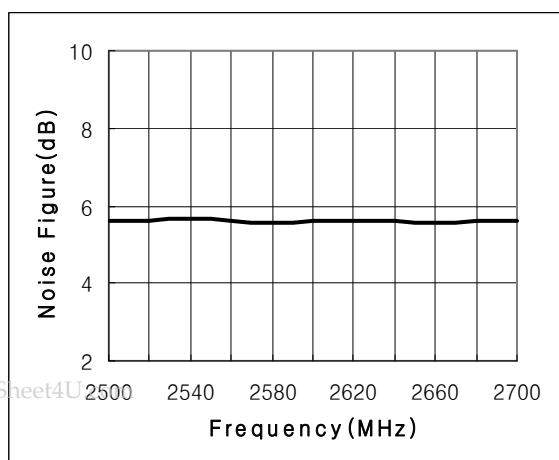
S-Parameter vs. Frequency



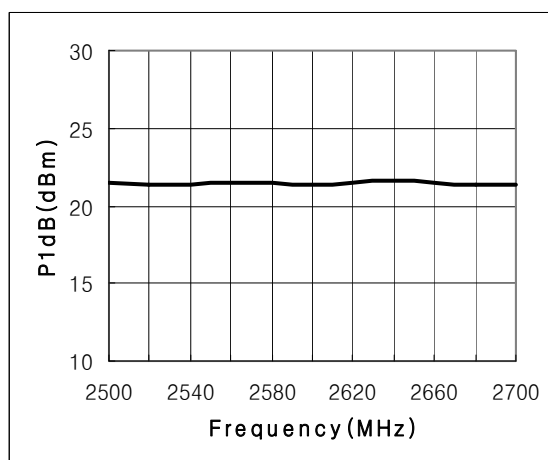
OIP3 vs. Frequency



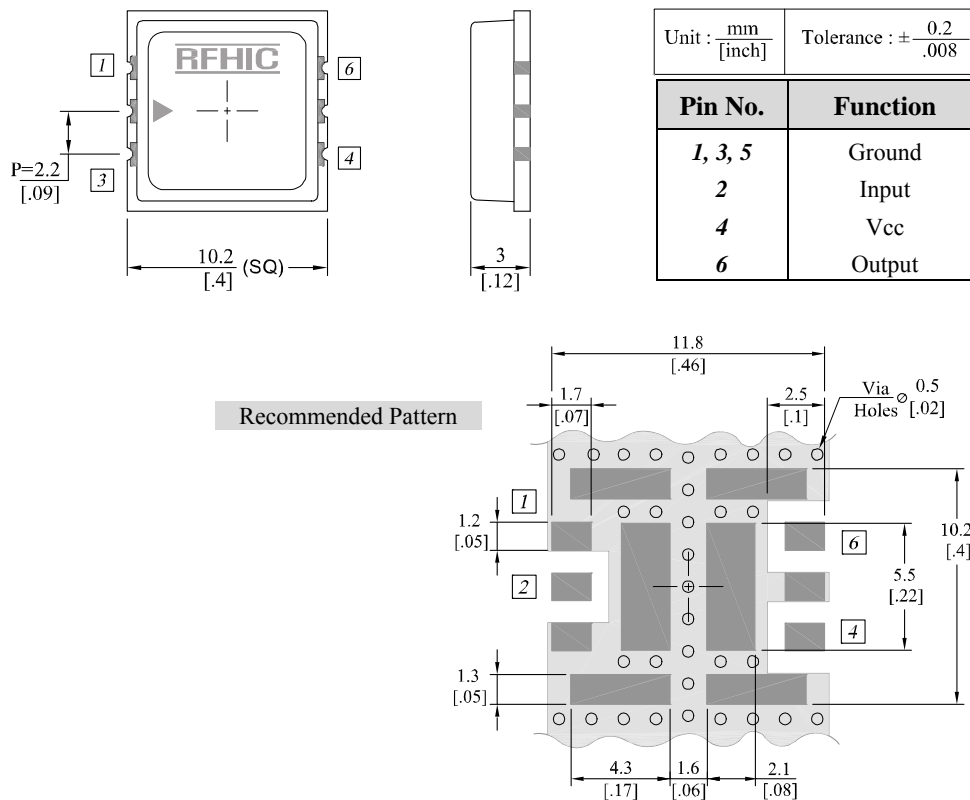
Noise Figure vs. Frequency



P1dB vs. Frequency



Package Dimensions (Type: CP-16B)



Same Package Platform for Below Part Numbers

GLM0921-L / GLM1521-L / GBM1821-L / GLM2121-L

GLM2521-L / GLM2123-L / GLM2723-L / GLM3623-L

2LM0905-L / 2LM2105-L