

Product Features

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

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	2400		2600
Device Voltage	VDC		+5	+5.3
Case Temperature	°C	-40		+85

Electrical Specifications

(Ta=+25 °C, V_{DD}=+5V, Fc=2500 MHz)

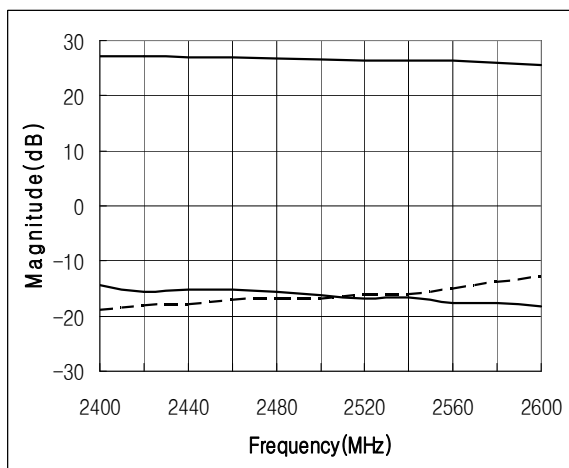
PARAMETER	UNIT	MIN	TYP	MAX
Gain	dB	25.5	26.5	
Input Return Loss	dB		-15	
Output Return Loss	dB		-15	
Output IP3	dBm	+38	+41	
1dB Compression Point	dBm		+21.5	
Noise Figure	dB		5.6	
DC Current	mA	170	200	230
Supply Voltage	VDC		+5	

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

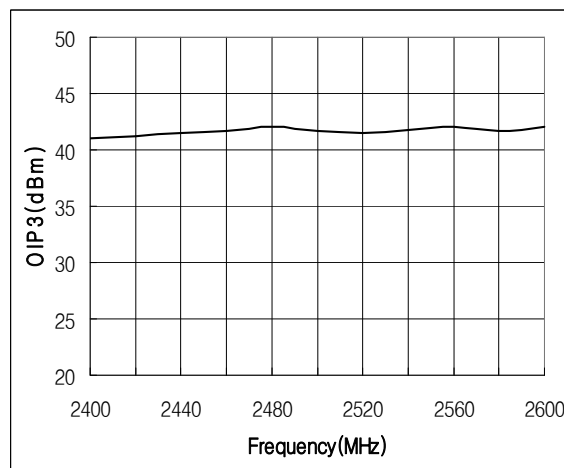
Performance Charts ($V_d=5V$, $I_d=200mA$, $T_c=25^\circ C$)

Frequency	MHz	2400	2440	2480	2520	2560	2600
Gain	dB	27.5	27.2	26.8	26.5	26	25.5
S11	dB	-14	-14.5	-15.5	-16	-17	-18
S22	dB	-18	-17	-15.5	-14	-13	-12
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

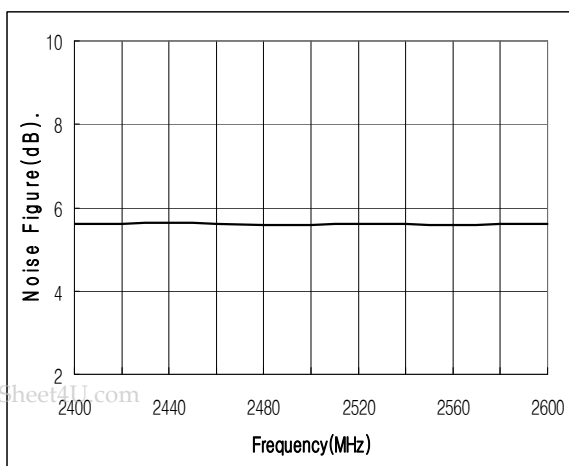
S-Parameter vs. Frequency



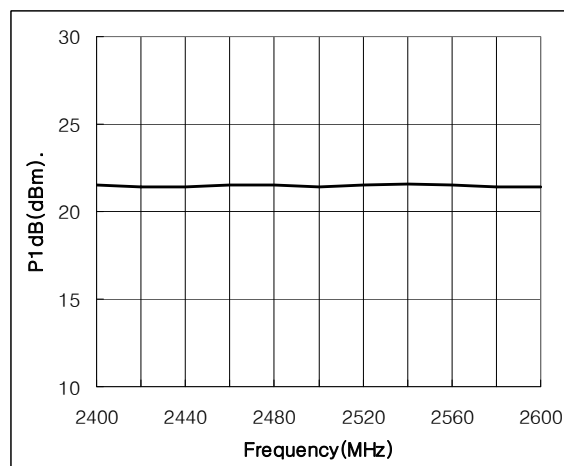
OIP3 vs. Frequency



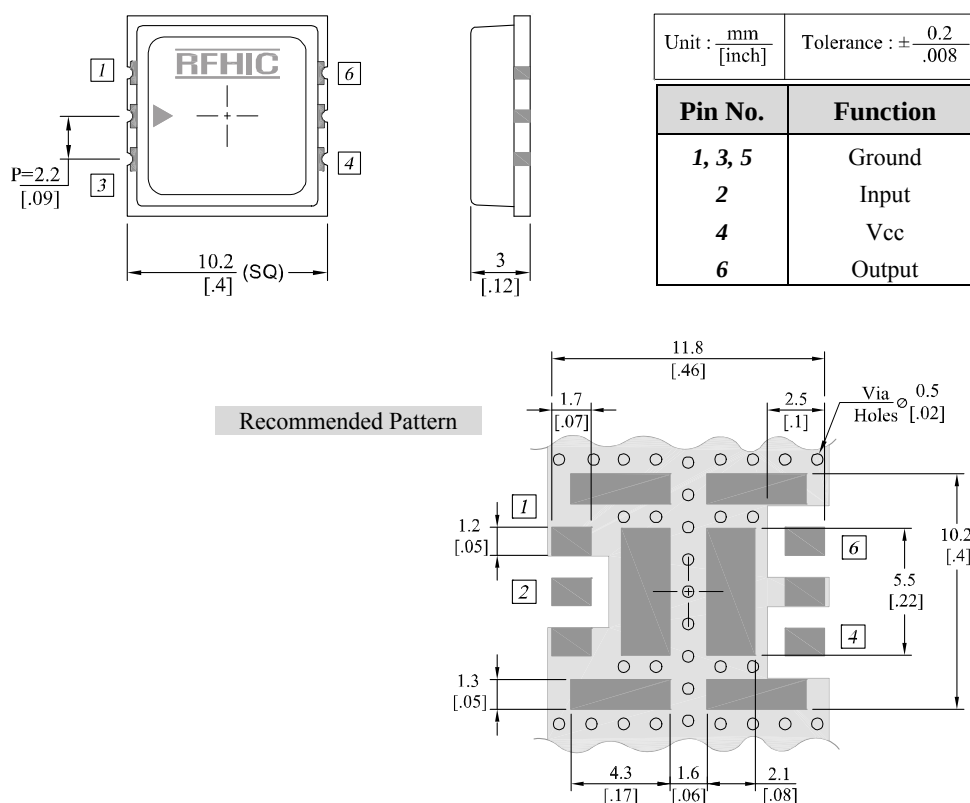
Noise Figure vs. Frequency



P1dB vs. Frequency



Package Dimensions (Type: CP-16B)



Same Package Platform for Below Part Numbers

GLM0921-L / GLM1521-L / GLM1821-L / GLM2121-L
 GLM2521-L / GLM2123-L / GLM2523-L / GLM2723-L
 GLM3623-L / 2LM0905-L / 2LM2105-L