

## 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		
RF Input Power	dBm		+7
Storage Temperature	°C	-40	+125

### Operating Ranges

PARAMETER	UNIT	MIN	TYP	MAX
Operating Frequency	MHz	1800	-	2200
Device Voltage	VDC	-	+5	
Case Temperature	°C			

## Electrical Specifications

(Ta=+25°C, VDD=+5V, F=2140MHz)

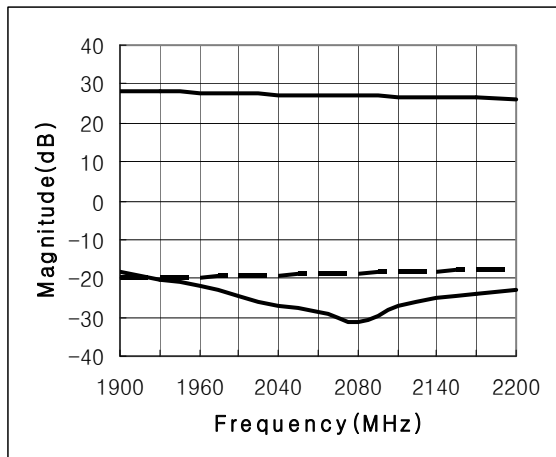
PARAMETER	UNIT	MIN	TYP	MAX
Gain	dB		26.6	
Input Return Loss	dB		-25	
Output Return Loss	dB		-18	
Output IP3	dBm	38	42	
1dB Compression Point	dBm		22	
Noise Figure	dB		5.9	
DC Current	mA		200	
Supply Voltage	VDC		+5	
Thermal Resistance(Rth)	°C/W			

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

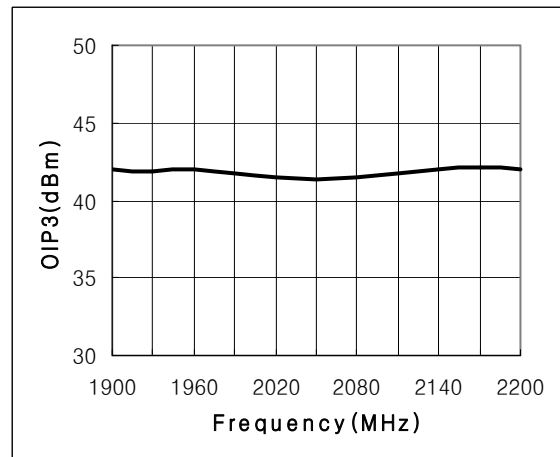
## Performance Charts ( $V_d=5V, I_d=200mA, T_c=25^\circ C$ )

Frequency	MHz	1900	1960	2020	2080	2140	2200
Gain	dB	28.2	27.6	27.1	26.9	26.6	26.1
S11	dB	-18	-22	-27	-31	-25	-23
S22	dB	-20	-20	-19	-18	-18	-17
OIP3	dBm	42	42	41.5	41.5	42	42
P1dB	dBm	22	21.9	22	22	22	22.1
Noise Figure	dB	5.9	5.8	5.8	5.9	5.9	5.9

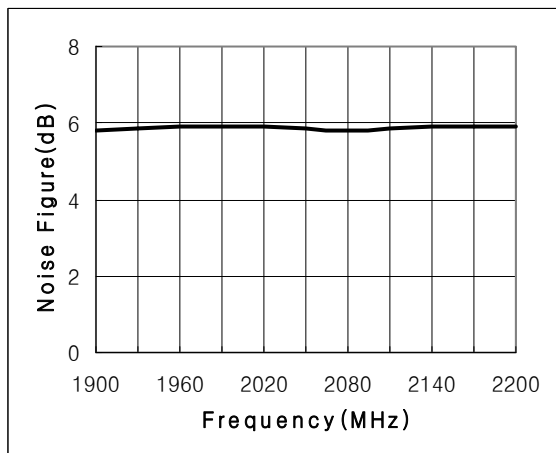
### S-Parameter vs. Frequency



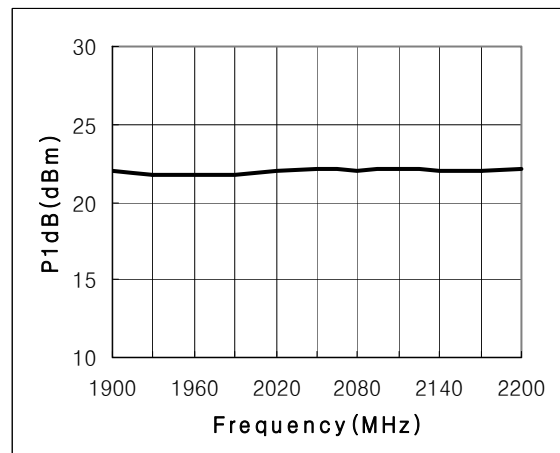
### OIP3 vs. Frequency



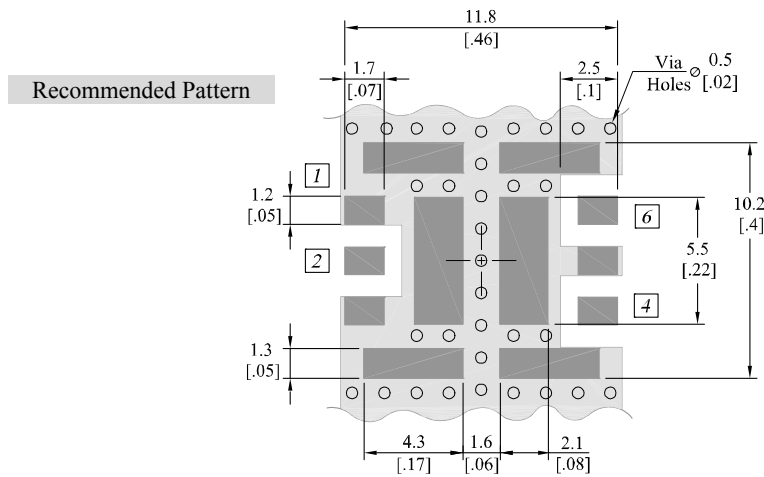
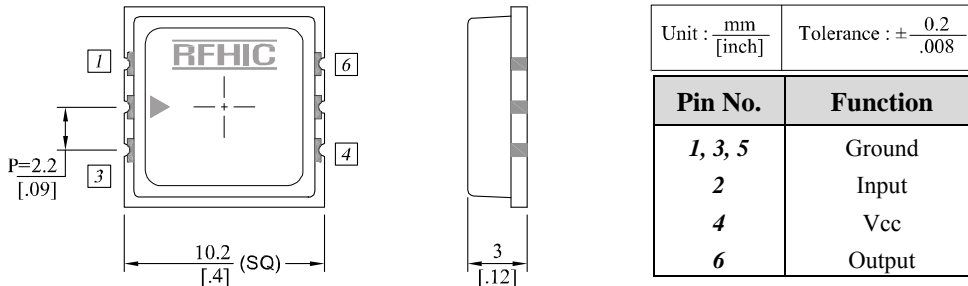
### Noise Figure vs. Frequency



### 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

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