

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

($T_a=+25^\circ\text{C}$, $V_{DD}=+5\text{V}$, $F=2600\text{MHz}$)

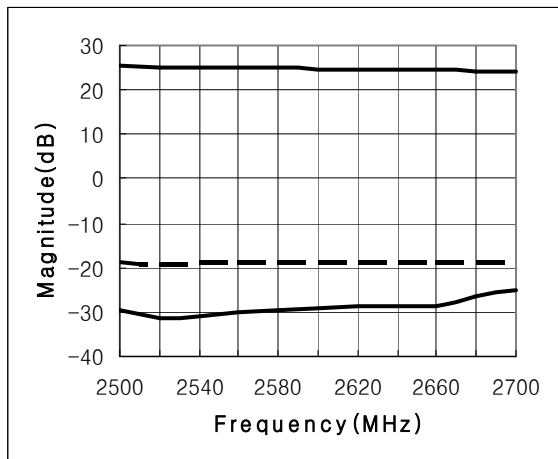
PARAMETER	UNIT	MIN	TYP	MAX
Gain	dB		24	
Input Return Loss	dB		-28	
Output Return Loss	dB		-19	
Output IP3	dBm	38	41.5	
1dB Compression Point	dBm		21.5	
Noise Figure	dB		5.6	
DC Current	mA		200	
Supply Voltage	VDC		+5	
Thermal Resistance(Rth)	°C/W			

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

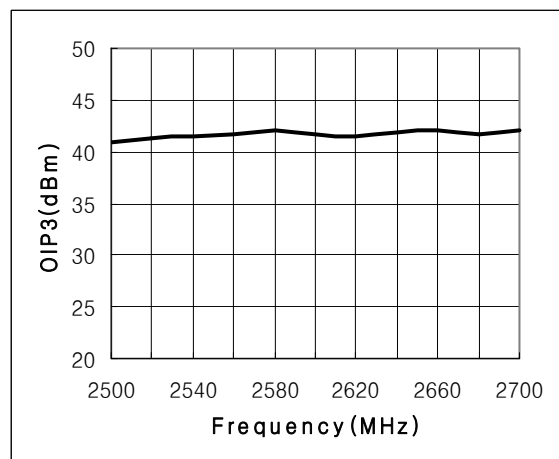
Performance Charts ($V_d=5V, I_d=200mA, T_c=25^\circ C$)

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

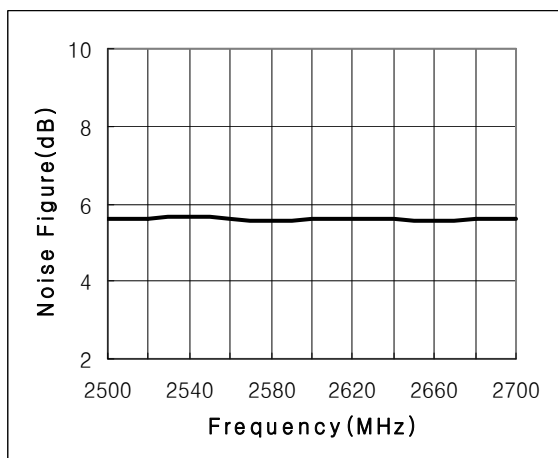
S-Parameter vs. Frequency



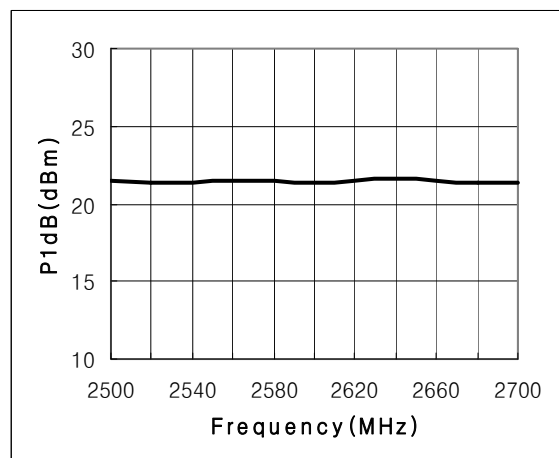
OIP3 vs. Frequency



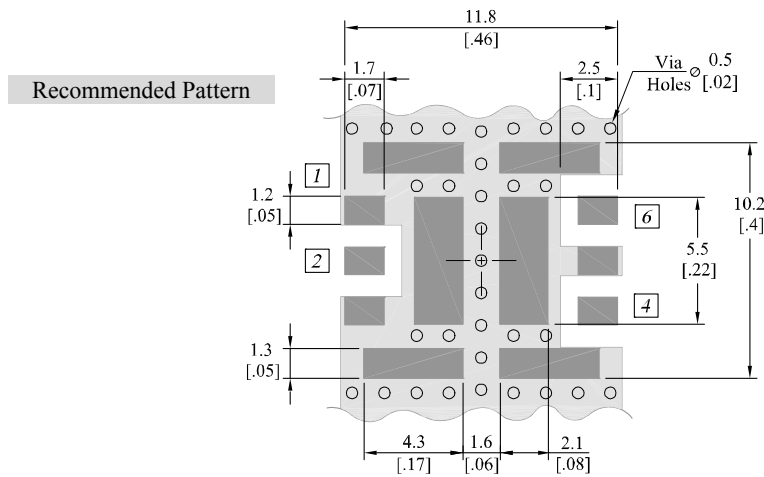
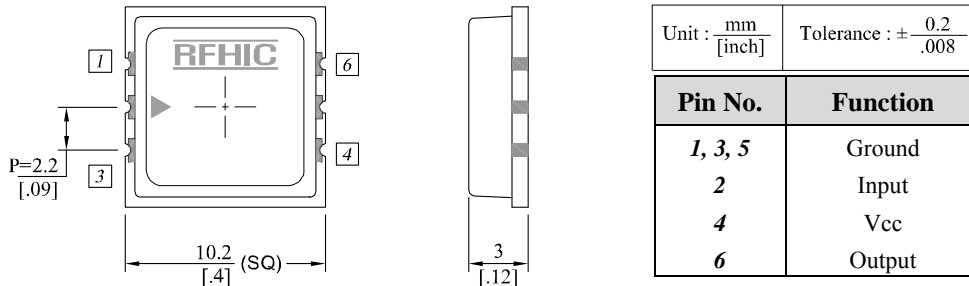
Noise Figure vs. Frequency



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

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