

Product Features

- GaAs MESFET + InGaP HBT
- No matching circuit needed
- High IP3
- Surface Mount Hybrid Type & Reel Packing
- Small Size
- 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	3200	-	3800
Device Voltage	VDC	-	+5	

Electrical Specifications

(Ta=+25°C, VDD=+5V, F=3600MHz)

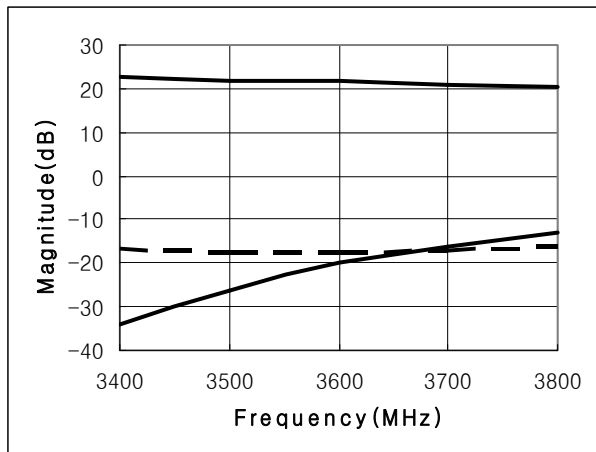
PARAMETER	UNIT	MIN	TYP	MAX
Gain	dB		21.5	
Input Return Loss	dB		-19	
Output Return Loss	dB		-17	
Output IP3	dBm	38	40	
1dB Compression Point	dBm		22	
Noise Figure	dB		5.7	
DC Current	mA		200	
Supply Voltage	VDC		+5	
Thermal Resistance(Rth)	°C/W			

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

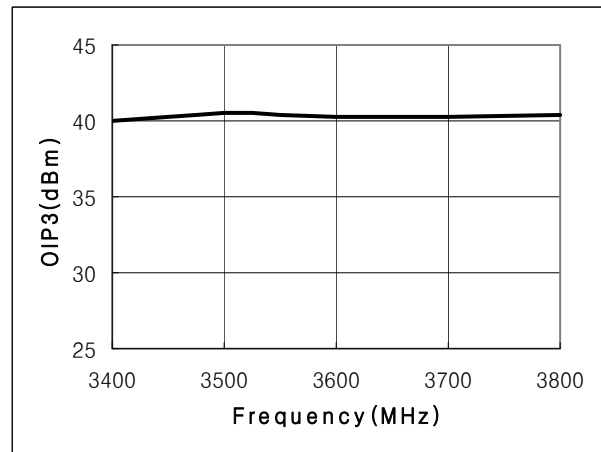
Performance Charts ($V_d=5V, I_d=200mA, T_c=25^\circ C$)

Frequency	MHz	3400	3500	3600	3700	3800
Gain	dB	22.5	21.9	21.5	21	20
S11	dB	-34	-26	-19	-16	-13
S22	dB	-17	-17	-17	-17	-17
OIP3	dBm	40	40	40	40	40
P1dB	dBm	22	22	22	22	22
Noise Figure	dB	5.7	5.7	5.7	5.7	5.7

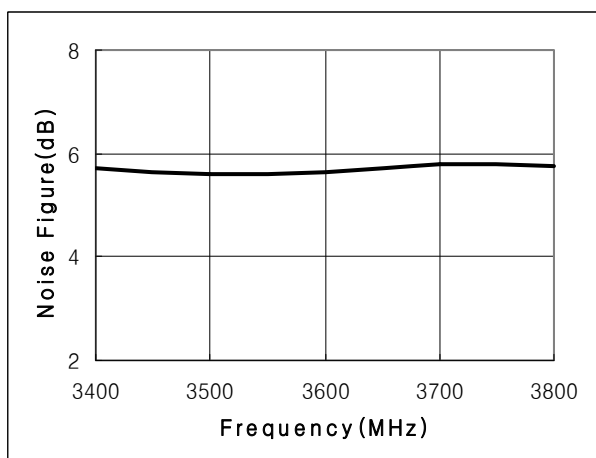
S-Parameter vs. Frequency



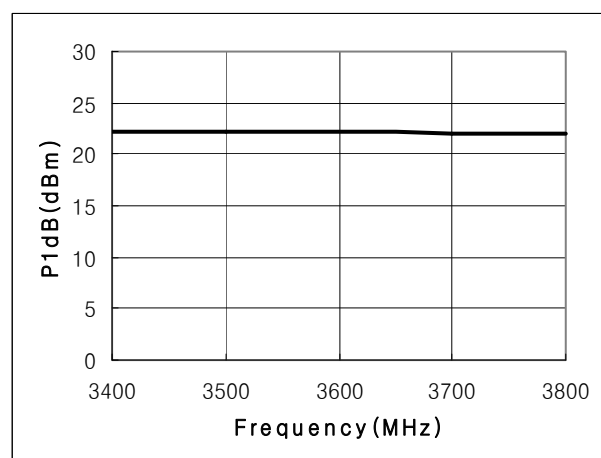
OIP3 vs. Frequency



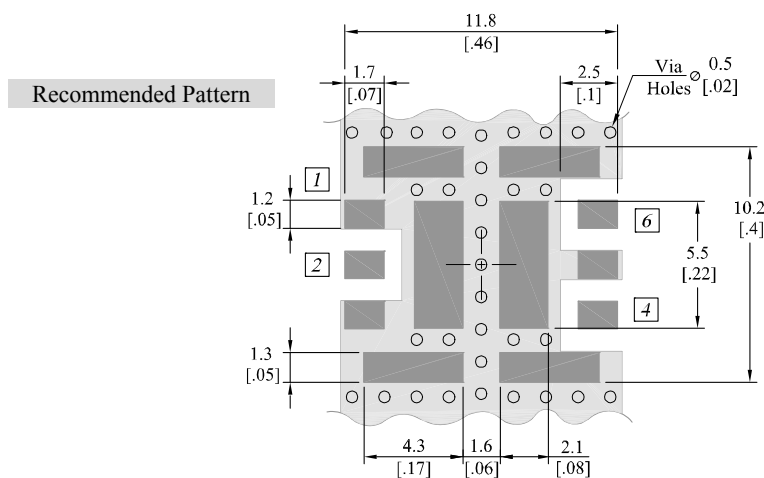
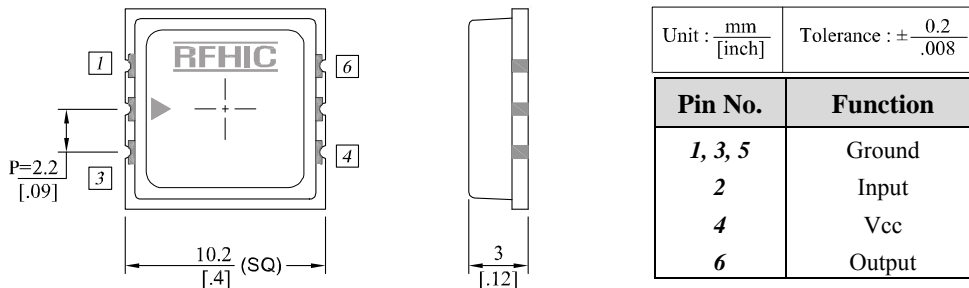
Noise Figure vs. Frequency



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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