

Features:

Frequency: 4-8GHz

Small Singal Gain: 27dB

Noise Figure:0.7dB typ. / 0.8dB max

P-1dB: 12dBm

Supplying: +5V/30mA

500hm Input/Output

100% In-situ Testing

Chip Size: 1.75 x 1.25 x 0.09 mm

Description:

The YTLA-0408B is a Wide Band Low Noise Amplifier which operates betwee 4~8GHz, This model is with 27dB of small Singal gain and 0.7dB for its noise figure!It adopts +5V of its supplying!

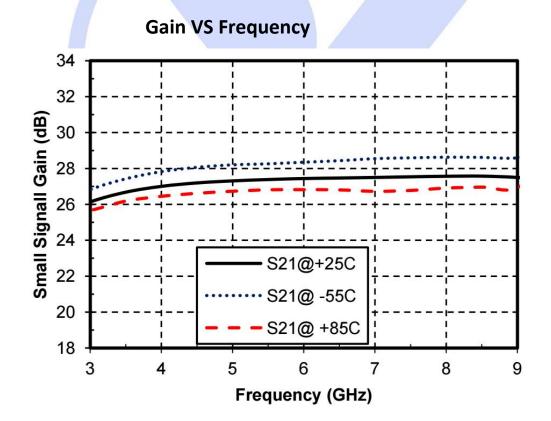
Limited Parameter	ed Parameter				
Max Drain Voltage	7V				
Max Input Power	+10dBm				
Working Temperature	−55 ~ +85° C				



Quanzhou Yingtron Microwave Electronics Co., Ltd **YTLA-0408B** GaAs MMIC Low Noise Amplifier, 4-8GHz

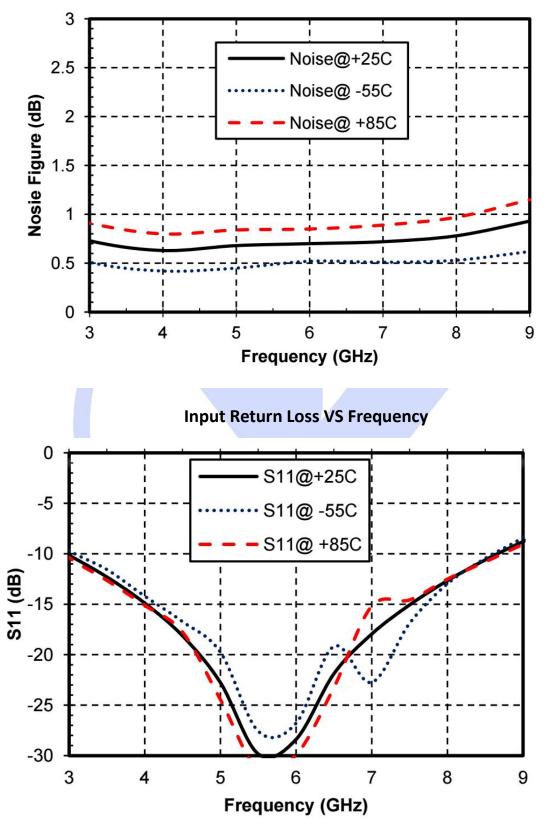
Storage Temperature	−65 ~ +150° C	

Features	Min	Typical	Max	Unite
Frequency	4-8G			GHz
Small Singal Grain		27	27.5	dB
Flatness		± 0.25		dB
Noise Figure		0.7	0.8	dB
P-1dB	11.5	12	13	dBm
PsatdB	12.5	13	14.5	dBm
Input Return Loss	12	20	_	dB
Output Return Loss	16	20	-	dB
Static Current		30		mA



Noise Figure VS Frequency

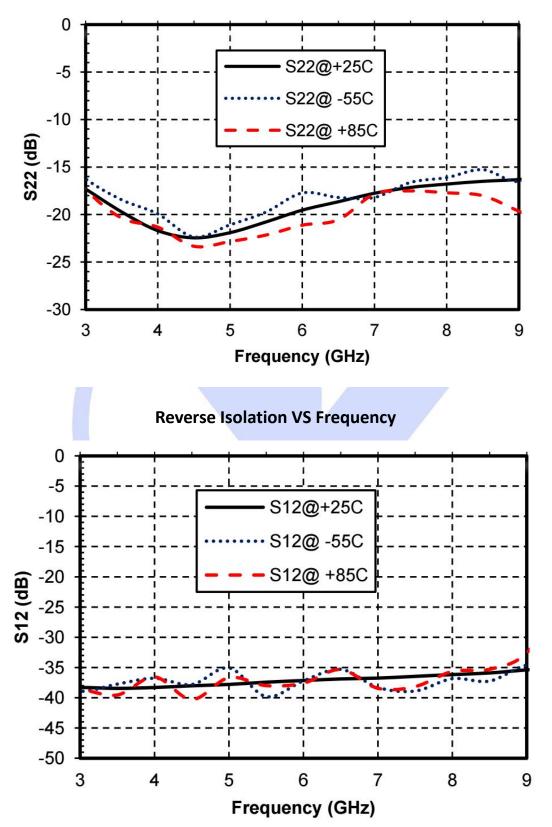




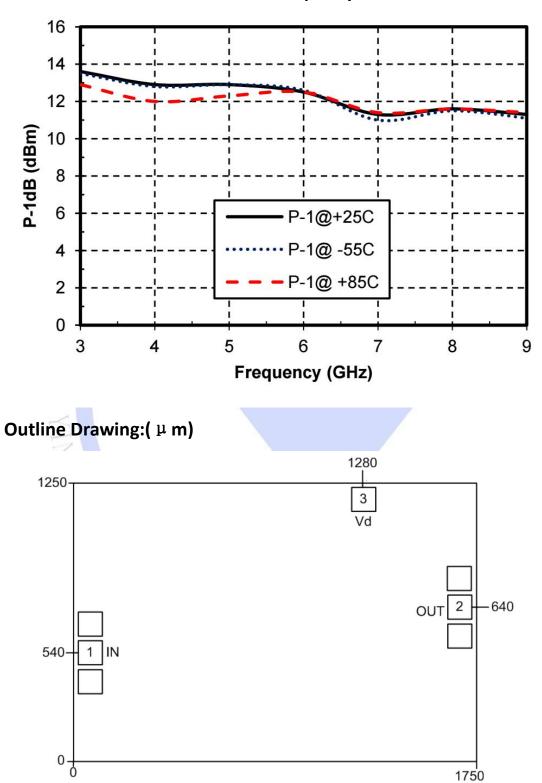
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Output Return Loss VS Frequency





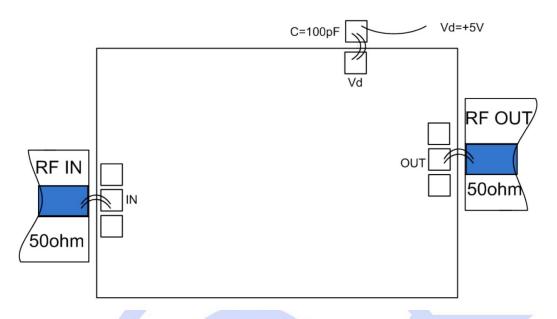




P-1dB VS Frequency

Assembly Diagram:





Handling Precautions

1.All bare die are placed in either Waffle or Gel based ESD protective containers, all die should be stored in a dry nitrogen environment.

2.Cleanliness: Handle the chips in a clean environment. DO NOT attempt to clean the chip using liquid cleaning systems

3.Follow ESD precautions to protect against ESD strikes

Handle the chip along the edges with a vacuum collet or with a sharp pair of bent tweezers. The surface of the chip has fragile air bridges and should not be touched with vacuum collet, tweezers, or fingers

4.Eutectic Die Attach: A 80/20 gold tin preform is recommended with a work surface temperature of 255 ° C and a tool temperature of 265 ° C. When hot 90/10 nitrogen/hydrogen gas is applied, tool tip temperature should 5.Epoxy Die Attach: Apply a minimum amount of epoxy to the mounting surface so that a thin epoxy fillet is observed around the perimeter of the chip once it is placed into position. Cure epoxy per the manufacturer' s schedule 6.Ball or wedge bond with 0.025mm (1 mil) diameter pure gold wire. Thermosonic wirebonding with a nominal stage temperature of 150 ° C and a ball bonding force of 40 to 50 grams or wedge bonding force of 18 to 22 grams is recommended. Use the minimum level of ultrasonic energy to achieve reliable wirebonds. Wirebonds should be started on the chip and terminated on the package or substrate. All bonds should be as short as possible <0.31mm (12 mils).