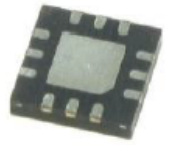


## AMLA0009PB Low Noise Amplifier Chip Package



### Key Features :

- Frequency range : 6 – 17GHz
- High gain
- High P-1
- Low cost QFN package

### Description :

AMLA0009PB chip is a Gallium Arsenide (GaAs) high performance Low Noise Amplifier, it covers 6 – 17GHz frequency range. It uses +5V single voltage operation, typical gain is 18dB.

#### Absolute Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Remark
Vd	Drain Voltage	7V	
Pin	Input Signal Power	17dBm	
Tch	Operating Temperature	150°C	
Tm	Sintering Temperature	310°C	30s, N <sub>2</sub> protection
Tstg	Storage Temperature	-65 ~ +150°C	

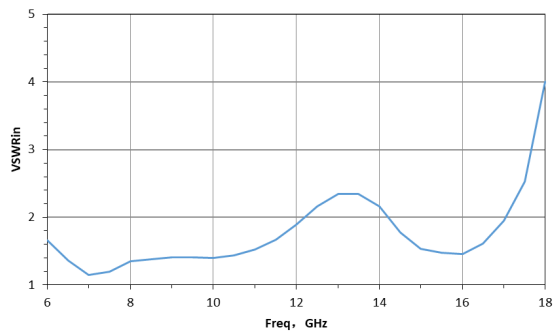
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

#### Electrical Characteristics (Ta = 25°C)

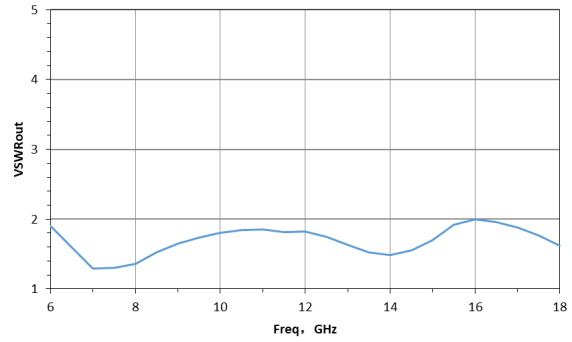
Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typical	Max	
G	Gain	Vd = +5V F : 6 ~ 17GHz	-	18	-	dB
NF	Noise figure		-	2.2	-	dB
Id	Static Current		-	90	-	mA
VSWR_in	Input Standing Wave		-	2	-	-
VSWR_out	Output Standing Wave		-	1.8	-	-
P-1	Output Power at 1dB point		-	16	-	dBm

## Typical Performance

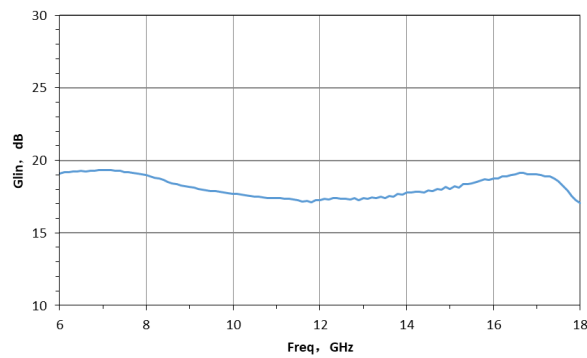
Input Standing Wave Curve



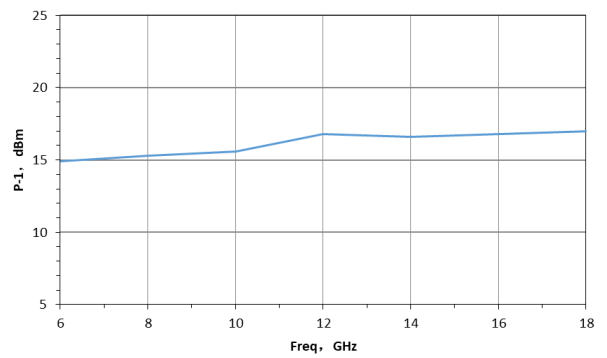
Output Standing Wave Curve



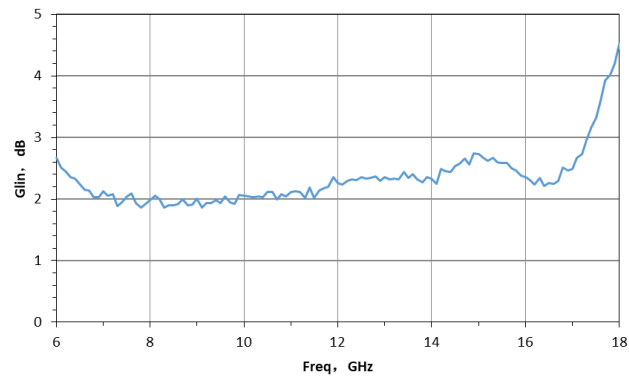
Gain Curve



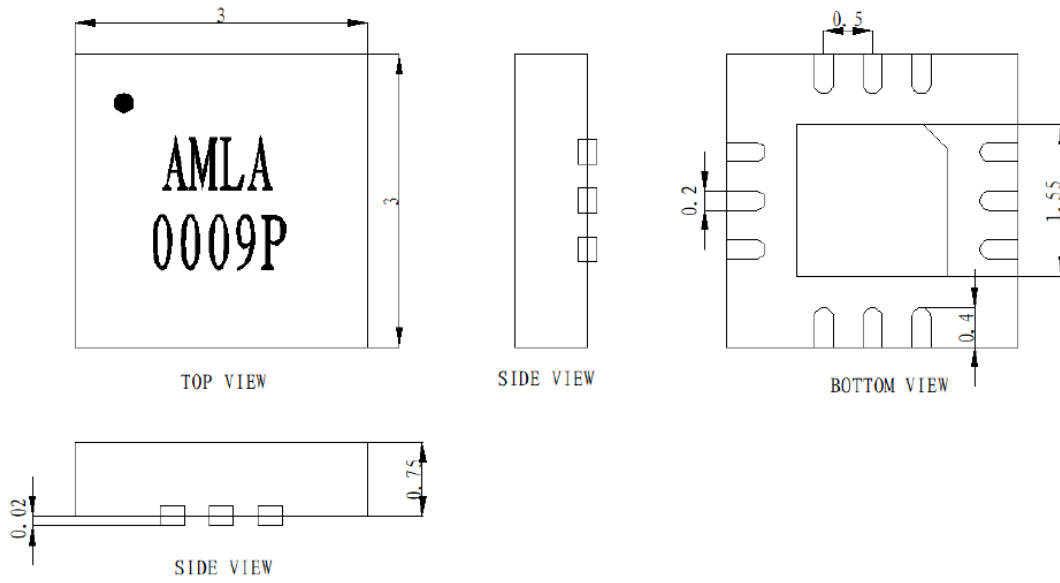
P-1 Curve



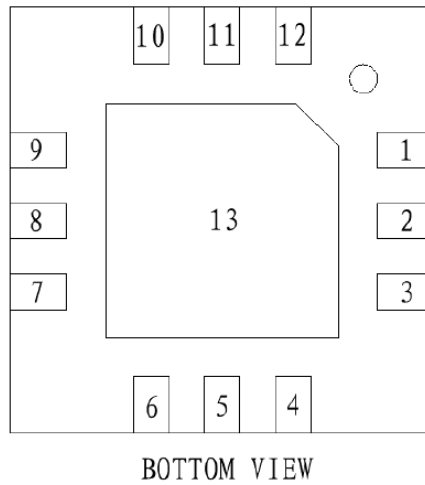
Noise Figure Curve



**Dimensions (Unit : mm)**



**Lead Diagram**



引脚	2	8	11	其他
用途	RF in	RFout	+5V 供电	GND