Key Features :

- Frequency range : 6 18GHz
- High gain
- High P-1
- Low cost package
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Description :

AMT1205P1 is a high performance GaAs LNA, frequency range covers 6 – 18GHz, +5V single supply, typical gain 20dB.

Absolute Maximum Ratings (Ta = 25°C)

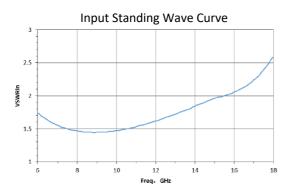
Symbol	Parameter	Value	Remark	
Vd	Drain voltage	7V		
Pin	Input signal power	17dBm		
Tch	Operation Temperature	150°C		
Tm	Sintering Temperature	310°C	30s, N ₂ protection	
Tstg	Storage Temperature	-65 ~ +150°C		

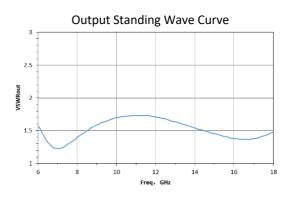
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typical	Max	
Glin	Gain		-	20	-	dB
NF	Noise figure	Vd = +5V	-	2	-	dB
Id	Static current	F : 6 ~ 18GHz	-	90	-	mA
VSWRi	Input standing wave	(Chip has 2 types of	-	1.8	2.5	-
VSWRo	Output standing wave	power supply, P-1 is	-	1.5	1.8	-
P-1	1dB compression point	selectable)	-	16@75mA	-	dBm
				18@90mA		

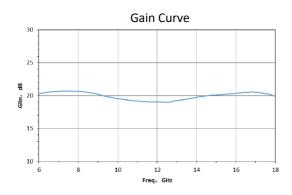
Typical Test Curve (@90mA current)

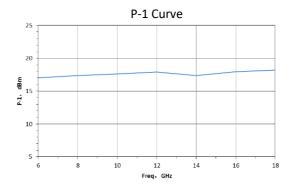


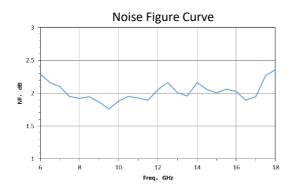


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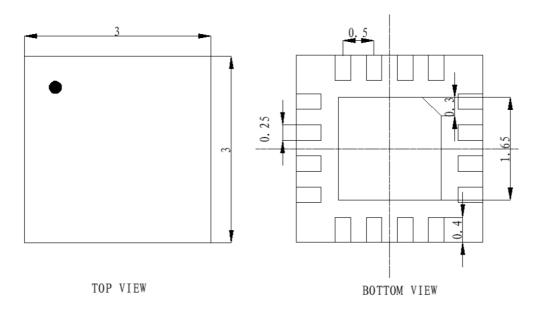
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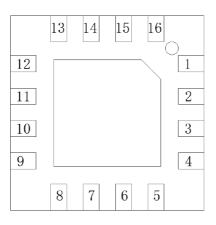




Dimensions (Unit : mm)



Lead Diagram



Lead	3	10	14	2, 4, 9, 11	Other
Use	RFin	RFout	+5V Supply	GND	Suggest to connect to GND, or not connected.

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