

0.4 – 6GHz Voltage Controlled Attenuator Packaged Chip

Key Features :

- Frequency range : 0.4 – 6GHz
- High attenuation resolution
- Loss insertion loss
- Low cost QFN package
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Product Description :

AMT1622P is a high performance voltage controlled attenuator, it is designed by Gallium Arsenide (GaAs) pHEMT process. It covers frequency range of 0.4 – 6GHz, typical insertion loss is 2.5dB, attenuation range is 2.5 - 30dB. This chip is for microwave transceiver module, to realize transceiver signal amplitude control function.

Absolute Maximum Ratings (Ta = 25°C)

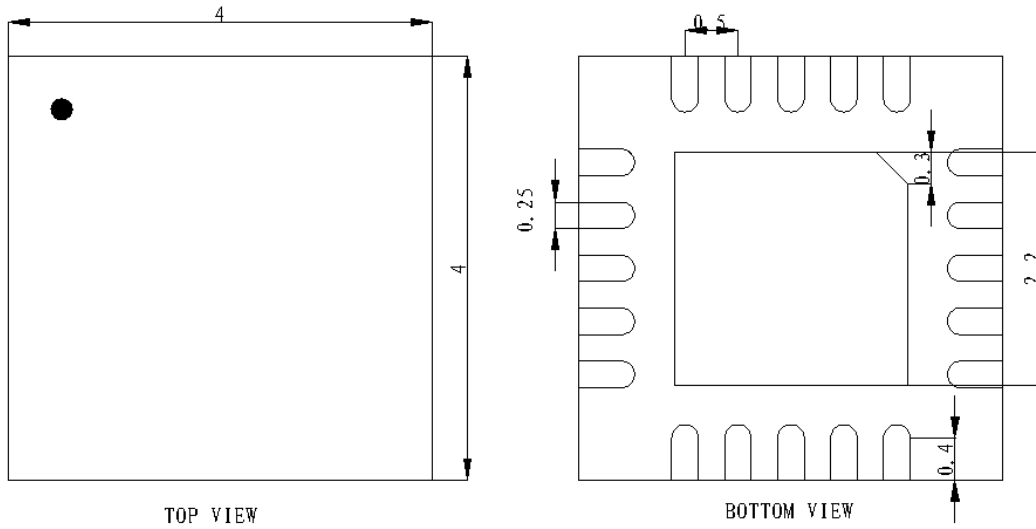
Symbol	Parameter	Value	Remark
VDD	Operation voltage	+6V	
Pin	Max. input signal power	+25dBm	
VC	Control voltage	-0.5V ~ 7V	
Tch	Operation Temperature	-55 ~ 125°C	
Tstg	Storage Temperature	-65 ~ 150°C	

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

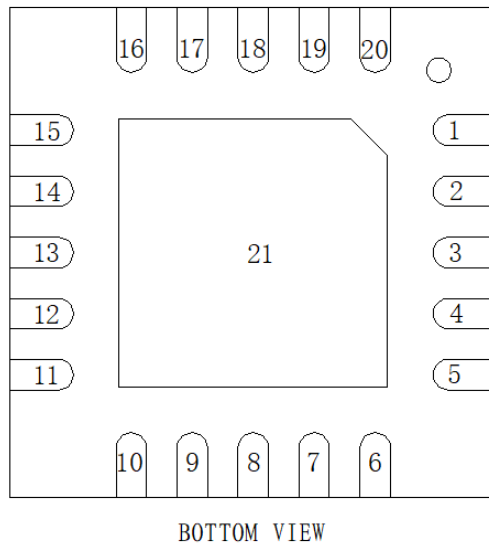
Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Value			Unit
		Min	Typical	Max	
F	Frequency range	0.4 - 6			GHz
IL	Insertion Loss	-	2.5	-	dB
ATT	Attenuation range	2.5 - 30			dB
VSWRin	Input Standing Wave	-	1.6	-	-
VSWRout	Output Standing Wave	-	1.6	-	-

Dimensions (Unit : mm)



Lead Diagram



Lead	Function
3	RF signal input port, external connect to 50Ω system, internal built in DC blocking capacitor
13	RF signal output port, external connect to 50Ω system, internal build in DC blocking capacitor
2, 4, 12, 14, 21	GND
18	+5V bias voltage
8	Control port, 0 ~ +5V, 0V is max. attenuation state, +5V is initial state
Other	Connect to GND or floating