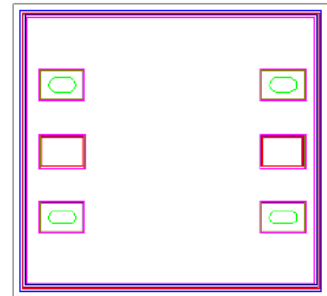


**AMT1618 / AMT1619 / AMT1620 / AMT1621
0.5dB / 1dB / 2dB / 4dB Fixed Attenuator Chip**



Key Features :

- Frequency range : 0 – 40GHz
- Insertion loss : 0.5dB / 1dB / 2dB / 4dB
- Input/output standing wave : 1.2
- Chip dimensions : 0.7mm x 0.65mm x 0.1mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Description :

This series is a high performance fixed attenuator chip, it is designed by Gallium Arsenide (GaAs) pHEMT process. It covers frequency range of DC – 40GHz, attenuation are 0.5dB, 1dB, 2dB and 4dB. This chip is designed with ground through metal vias on the back technology. All chip products p are 100% RF tested.

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Remark
Pin	Input Power	30dBm	
Tm	Sintering Temperature	290°C	30s, N ₂ protection
Tstg	Storage Temperature	-65 ~ +150°C	

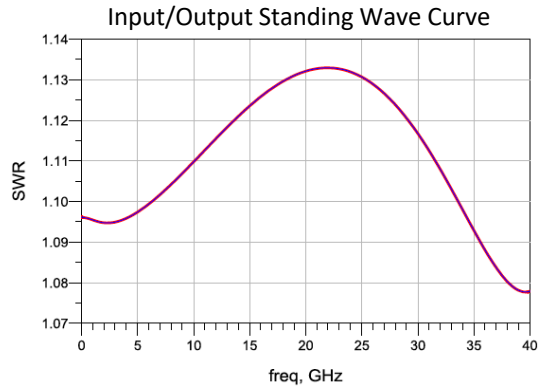
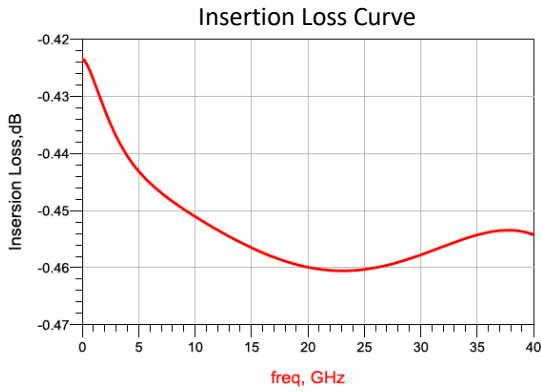
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

Electrical Characteristics (Ta = 25°C)

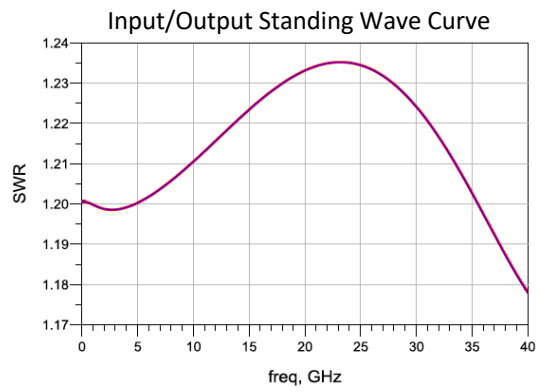
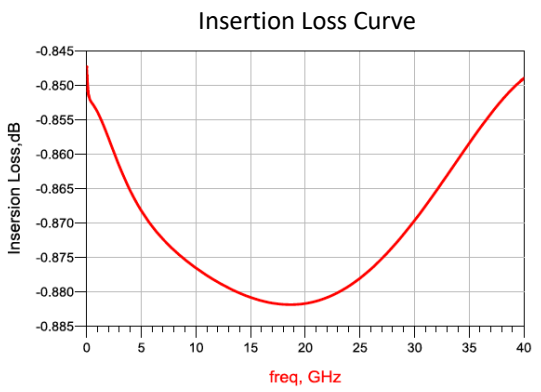
Symbol	Parameter	Value			Unit	
		Min	Typical	Max		
VSWRin	Input Standing Wave	-	1.2	-	-	
VSWRout	Output Standing Wave	-	1.2	-	-	
IL	Insertion Loss	AMT1618	-	0.5	-	dB
		AMT1619	-	1	-	dB
		AMT1620	-	2	-	dB
		AMT1621	-	4	-	dB

Typical Performance

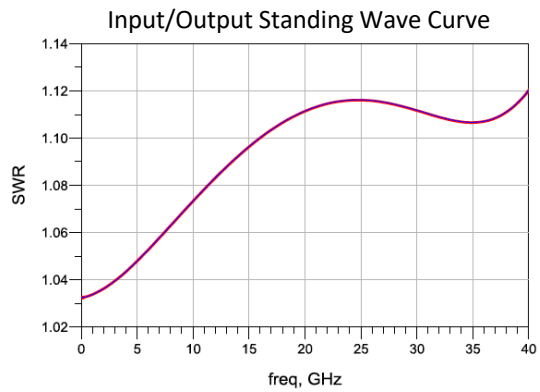
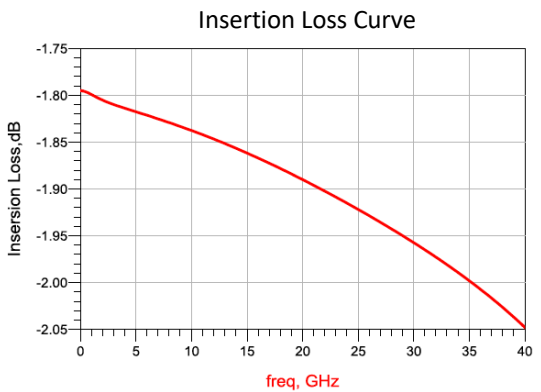
0.5dB



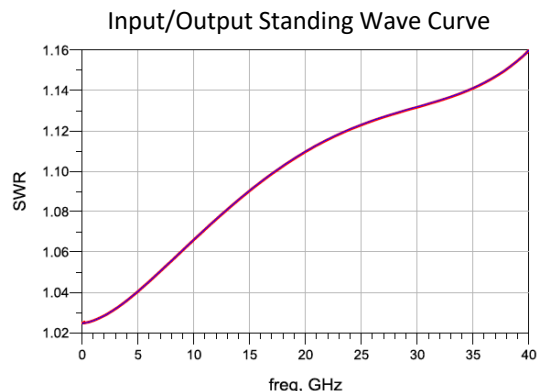
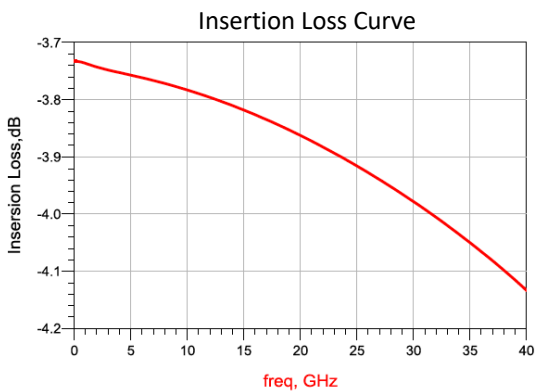
1dB



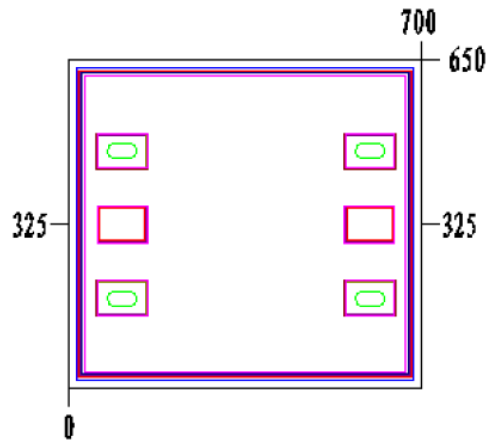
2dB



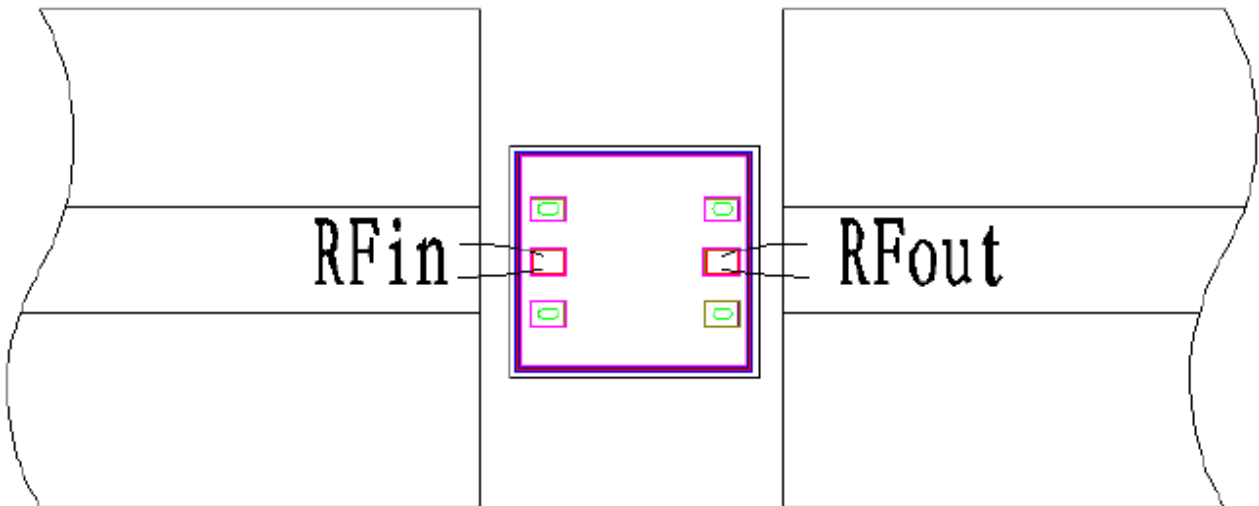
4dB



Chip Dimensions (Unit : μm)



Chip Layout Diagram



Please see Appendix A for details.