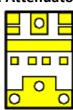
AMT3301 DC – 40GHz Adjustable Attenuator



Key Features:

Frequency range : DC – 40GHz
 Attenuation range : 0 – 3.5dB
 Phase shift range : 0 ~ 35°

Input/output standing wave: 1.3:1 (max 1.5)
Chip dimensions: 0.7mm x 1mm x 0.127mm

• Applications: wireless communication, transceiver module, radio telecommunication etc.

Description:

AMT3301 is a high performance adjustable attenuator, this chip is designed with ground through metal vias on the back technology. No electric bias is required in $0.8-1.2 \, \text{GHz}$; through gold wire bond, attenuation can be adjusted by $0.5 \, \text{dB}$ per step between $0 \, \text{dB} \simeq 3.5 \, \text{dB}$.

Absolute Maximum Ratings (Ta = 25°C)

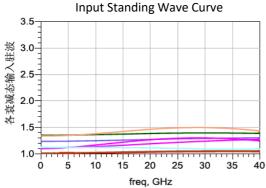
Symbol	Parameter	Value	Remark
Pin	Input power	+33dBm	
Та	Operation Temperature	-55 ~ +85°C	
Tstg	Storage Temperature	-65 ~ +150°C	

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

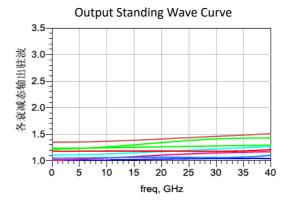
Electrical Characteristics (Ta = 25°C)

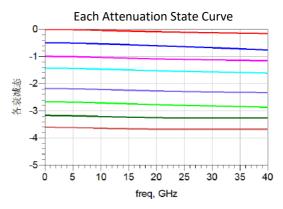
Symbol	Parameter	Value			Unit
		Min	Typical	Max	
IL	Insertion loss	-	0.1	0.3	dB
ΔAi	Attenuation resolution	-	± (0.3 + 5% Ai)	±(0.3 + 10% AI)	dB
VSWR	Input/output standing wave	-	1.3	1.5	-

Typical Test Curve

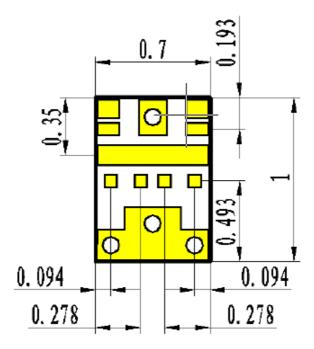








Chip Dimensions (Unit: μ m)



Chip Layout Diagram

