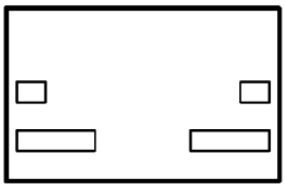
AMT3201
6 – 18GHz Adjustable Phase Shifter Chip



Key Features :

- Frequency range : 6 – 18GHz
- Phase shift range : 0 ~ 30°, each phase shift state is around 10°
- Input standing wave : 1.3 : 1
- Output standing wave : 1.3 : 1
- Chip dimensions : 1.5mm x 1mm x 0.127mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Description :

AMT3201 is a high performance adjustable phase shifter, this chip is designed with ground through metal vias on the back technology. No electric bias is required in 6 – 18GHz; through gold wire bond, phase shift can be adjusted by 10° per step between 0 ~ 30°.

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Remark
Pin	Input power	+40dBm	
Ta	Operation Temperature	-55 ~ +125°C	
Tstg	Storage Temperature	-65 ~ +150°C	

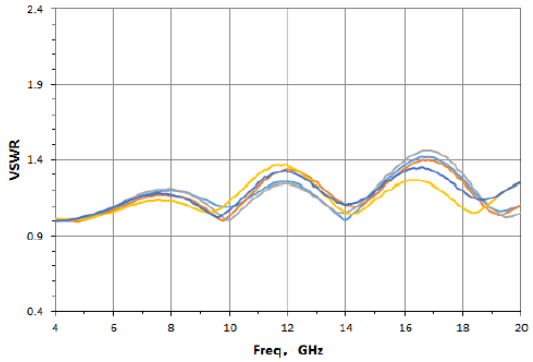
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

Electrical Characteristics (Ta = 25°C)

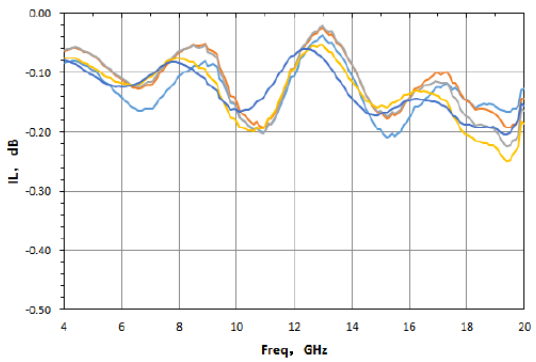
Symbol	Parameter	Value			Unit
		Min	Typical	Max	
IL	Insertion loss	-	0.15	0.25	dB
VSWR	Input/output standing wave	-	1.3	1.5	-

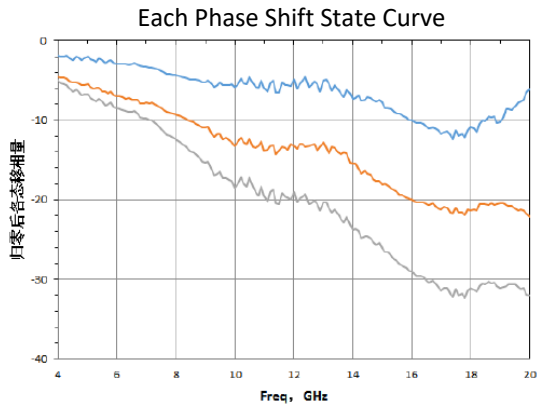
Typical Test Curve

Input/Output Standing Wave Curve

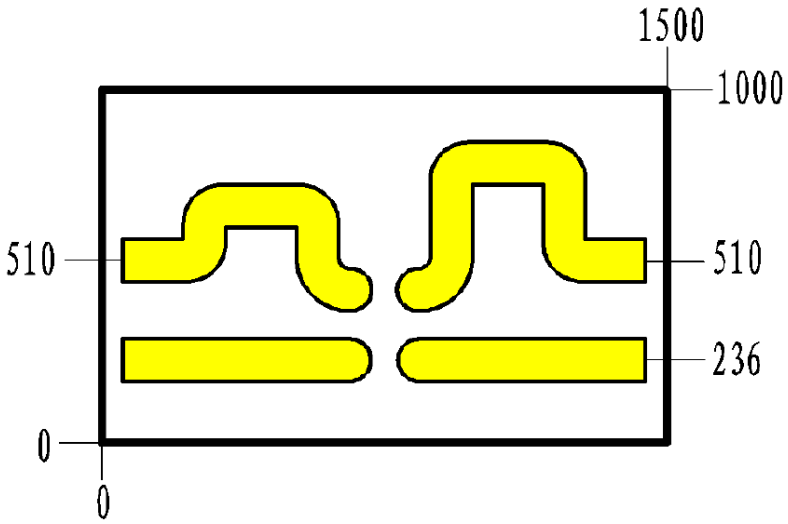


Insertion Loss Curve

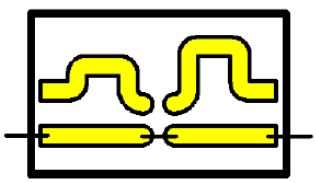




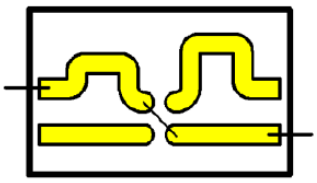
Chip Dimensions (Unit : μm)



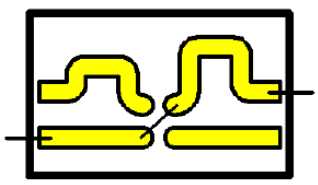
Chip Layout Diagram



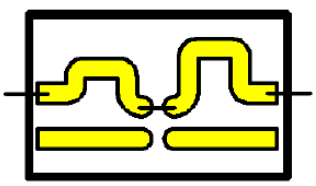
0°



10°



20°



30°