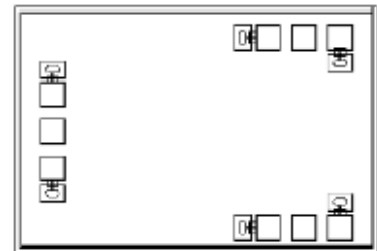


**AMT1801**  
**2 – 6GHz Power Divider Chip**



**Key Features :**

- Frequency range : 2 – 6GHz
- Input/output standing wave : 1.3
- Insertion loss : 0.6dB
- Isolation : 22dB
- Chip dimensions : 1.5mm x 1.0mm x 0.1mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

**Description :**

AMT1801 is a 1-to-2 power divider chip designed by Gallium Arsenide (GaAs) process, it covers 2 – 6GHz frequency range, with 22dB typical isolation. This chip is designed with ground through metal vias on the back technology.

**Absolute Maximum Ratings (Ta = 25°C)**

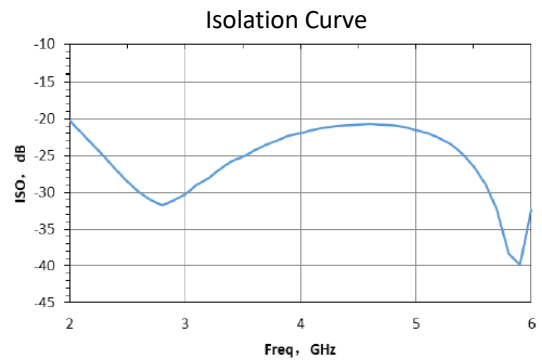
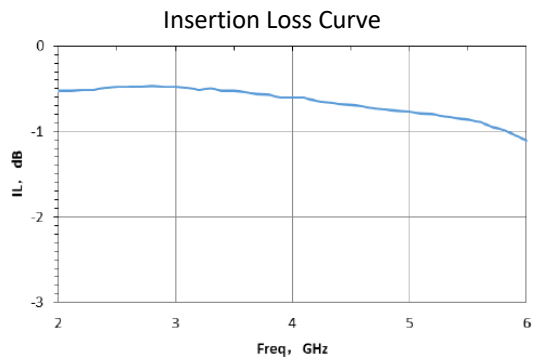
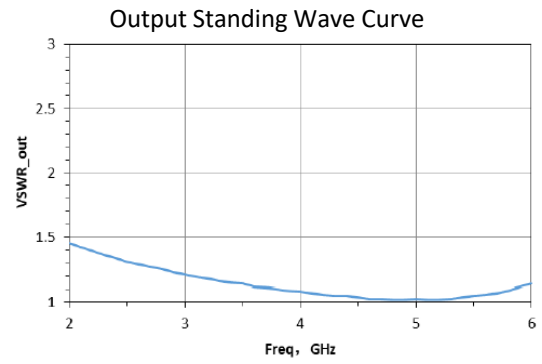
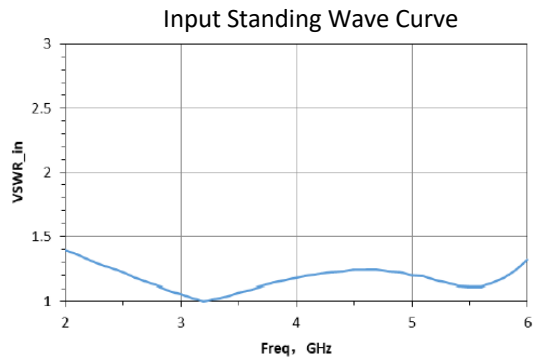
Symbol	Parameter	Value	Remark
Pin	Input Power	+37dBm	
Tch	Operating Temperature	150°C	
Tm	Sintering Temperature	310°C	30s, N <sub>2</sub> protection
Tstg	Storage Temperature	-65 ~ +150°C	

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

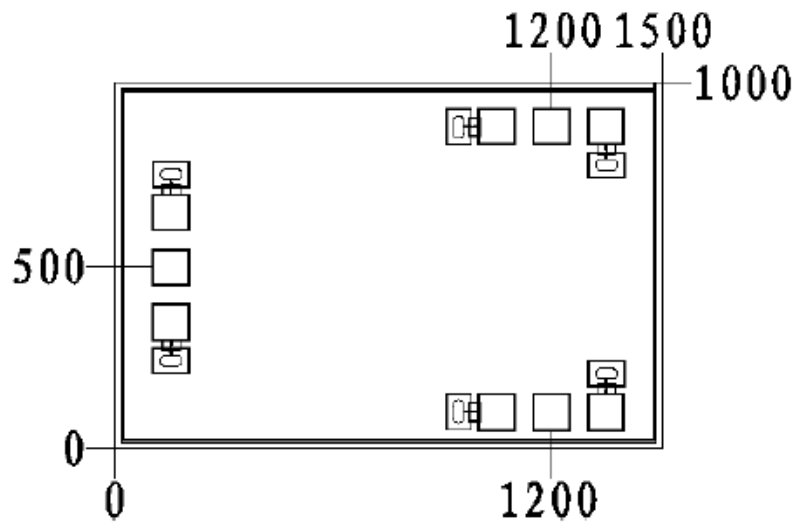
**Electrical Characteristics (Ta = 25°C)**

Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typical	Max	
VSWR_in	Input Standing Wave	Pin = 0 dBm F : 2 ~ 6GHz	-	1.3	1.6	-
VSWR_out	Output Standing Wave		-	1.3	1.6	-
IL	Insertion Loss		-	0.6	1.35	dB
ISO	Isolation		17	22		dB

## Typical Performance



### Chip Dimensions (Unit : $\mu\text{m}$ )



### Chip Layout Diagram

