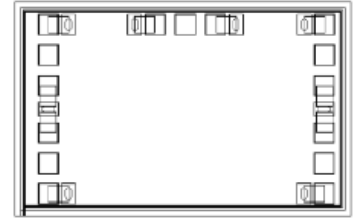


AMT1806-2
18 - 26GHz Power Divider Chip



Key Features :

- Frequency range : 18 – 26GHz
- Input/output standing wave : 1.4
- Insertion loss : 1.3dB
- Isolation : 25dB
- Chip dimensions : 1.65mm x 1.05mm x 0.1mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Description :

AMT1806-2 is a 1-to-4 power divider chip designed by Gallium Arsenide (GaAs) process, it covers 18 – 26GHz frequency range, with typical 25dB isolation. This chip is designed with ground through metal vias on the back technology.

Absolute Maximum Ratings (Ta = 25°C)

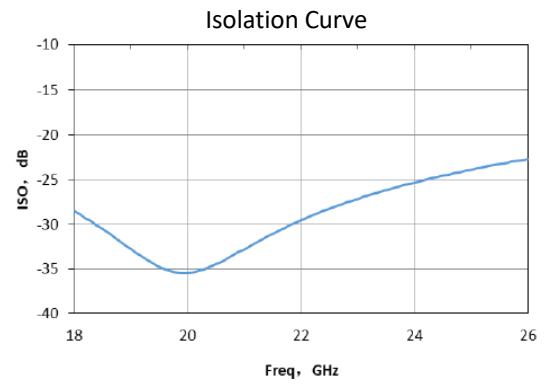
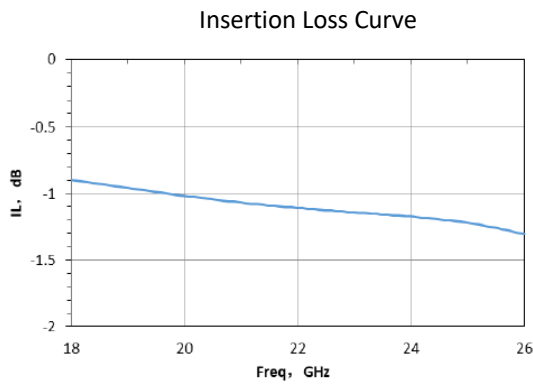
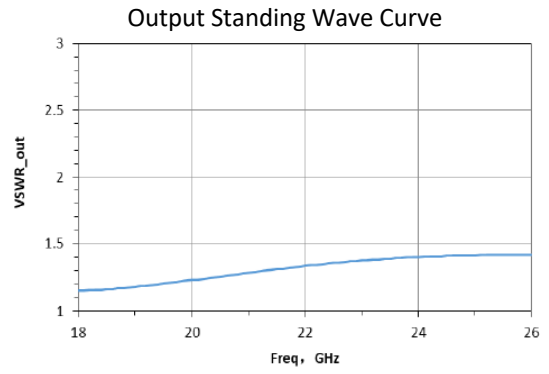
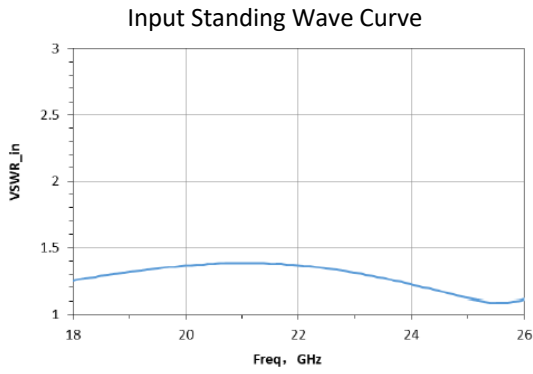
Symbol	Parameter	Value	Remark
Pin	Input Power	+37dBm	
Tch	Operating Temperature	150°C	
Tm	Sintering Temperature	310°C	30s, N ₂ protection
Tstg	Storage Temperature	-65 ~ +150°C	

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

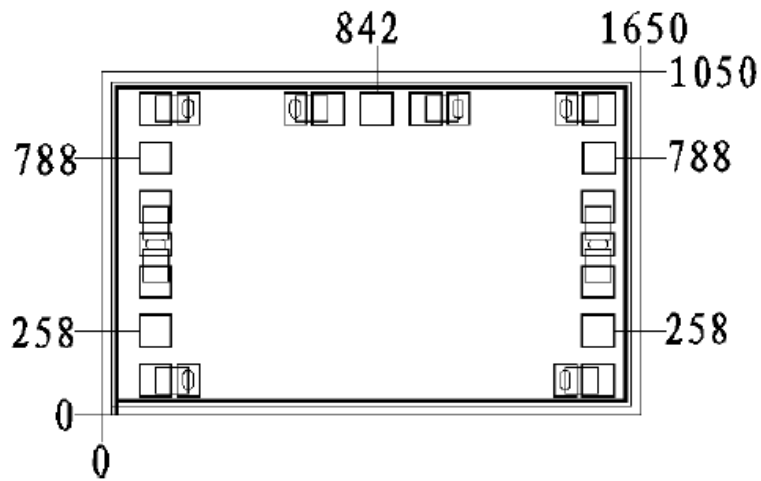
Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typical	Max	
VSWR_in	Input Standing Wave	Pin = 0 dBm F : 18 ~ 26GHz	-	1.4	1.6	
VSWR_out	Output Standing Wave		-	1.4	1.6	
IL	Insertion Loss		-	1.3	1.5	dB
ISO	Isolation		20	25	-	dB

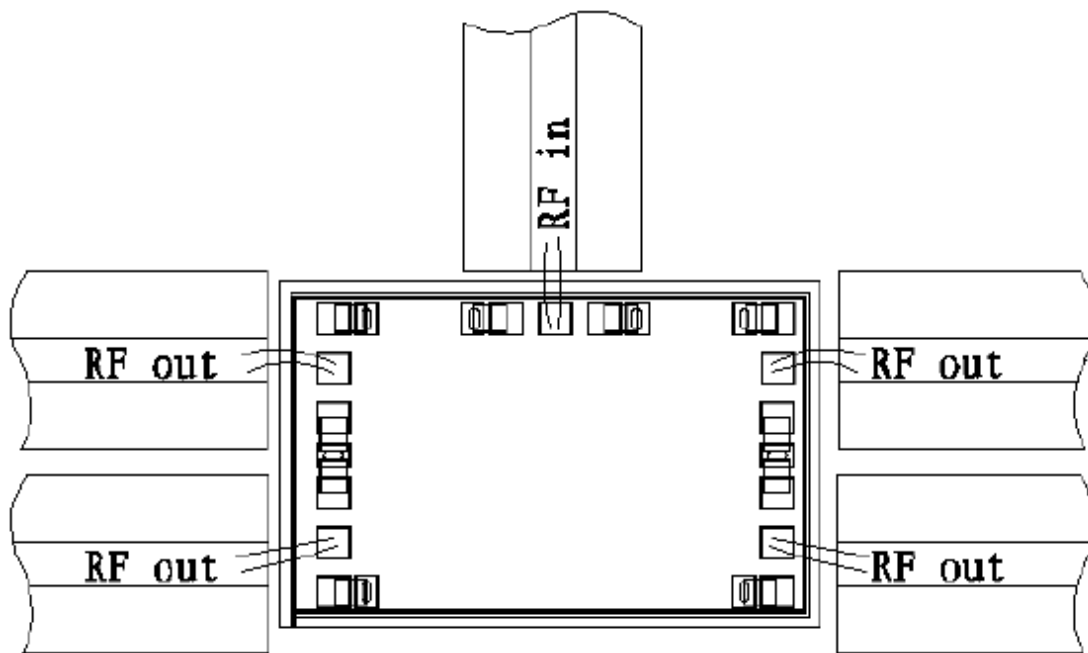
Typical Performance



Chip Dimensions (Unit : μm)



Chip Layout Diagram



Please see Appendix A for details.