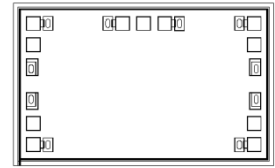


AMT1807
6 – 18GHz Power Divider Chip



Key Features :

- Frequency range : 6 – 18GHz
- Input/output standing wave : 1.4/1.2
- Insertion loss : 1.6dB
- Isolation : 22dB
- Chip dimensions : 1.85mm x 1.1mm x 0.1mm
- Applications : transceiver module, RF microwave system etc.

Description :

AMT1807 is a 1-to-4 power divider chip designed by Gallium Arsenide (GaAs) process, it covers 6 – 18GHz frequency range, with typical 22dB isolation. This chip is designed with ground through metal vias on the back technology.

Absolute Maximum Ratings (Ta = 25°C)

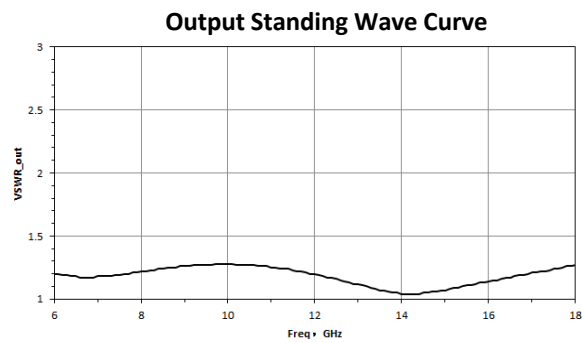
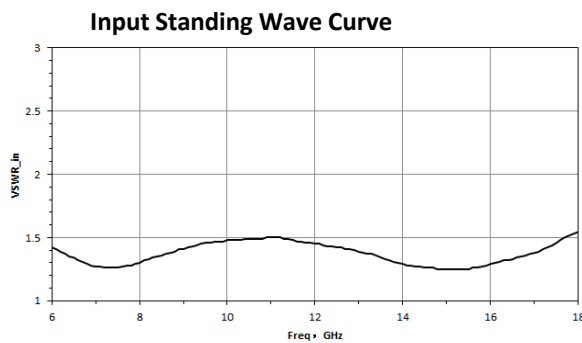
Symbol	Parameter	Value	Remark
Pin	Input Power	+37dBm	
Tch	Operating Temperature	150°C	
Tm	Sintering Temperature	310°C	30s, N ₂ protection
Tstg	Storage Temperature	-65 ~ +150°C	

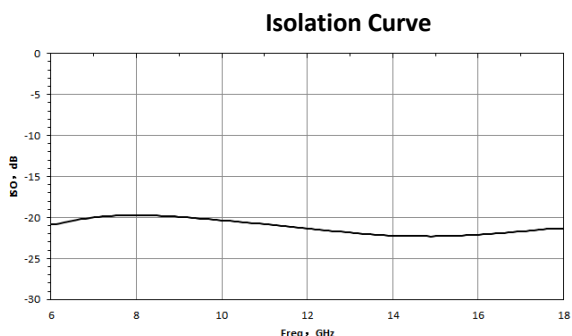
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

Electrical Characteristics (Ta = 25°C)

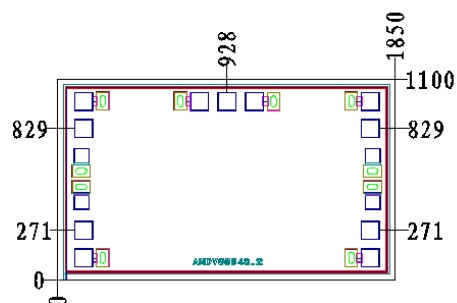
Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typical	Max	
VSWR_in	Input Standing Wave	Pin = 0 dBm F : 6 ~ 18GHz	-	1.4	1.7	-
VSWR_out	Output Standing Wave		-	1.2	1.7	-
IL	Insertion Loss		-	1.6	2.5	dB
ISO	Isolation		18	22	-	dB

Typical Performance

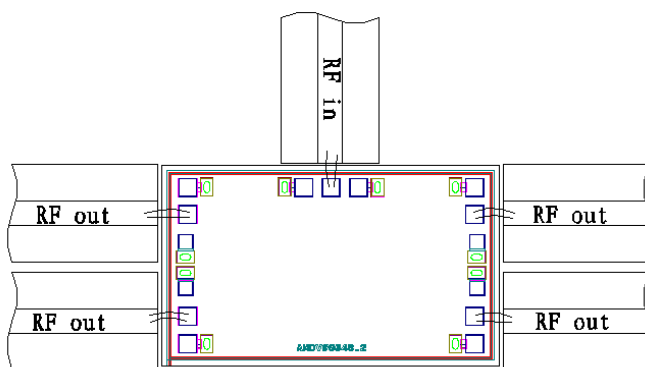




Chip Dimensions (Unit : μm)



Chip Layout Diagram



Please see Appendix A for details.