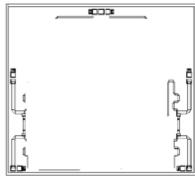
AMT1805 2 – 18GHz Power Divider Chip



Key Features :

- Frequency range : 2 18GHz
- Input/output standing wave : 1.3
- Insertion loss : 2dB
- Isolation : 30dB
- Chip dimensions : 3.85mm x 4.3mm x 0.1mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Description:

AMT1805 is a 1-to-4 power divider chip designed by Gallium Arsenide (GaAs) process, it covers 2 - 18GHz frequency range, with typical 30dB isolation. This chip is designed with ground through metal vias on the back technology.

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				

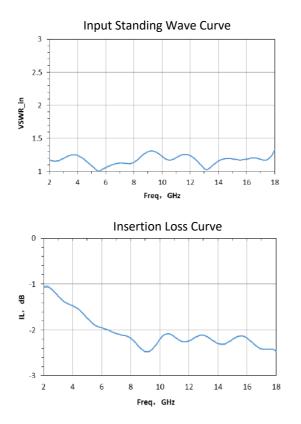
Absolute Maximum Ratings (Ta = 25°C)

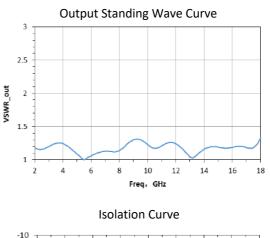
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

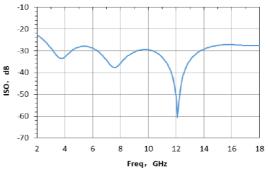
Electrical Characteristics (Ta = 25°C)

Symbol	Parameter	Test Conditions	Value			Unit
			Min	Typical	Max	
VSWR_in	Input Standing Wave		-	1.3	2	-
VSWR_out	Output Standing Wave	Pin = 0 dBm	-	1.3	1.5	-
IL	Insertion Loss	F : 2 ~ 18GHz	-	2	2.5	dB
ISO	Isolation		20	30	-	dB

Typical Performance

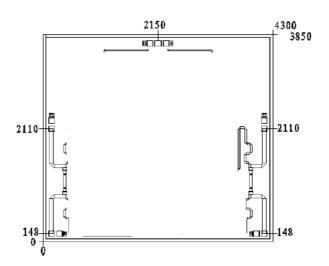




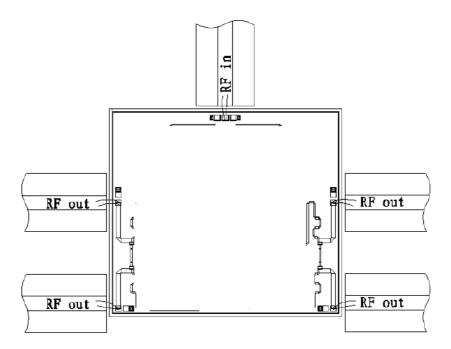


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Chip Dimensions (Unit : µm)



Chip Layout Diagram



Please see Appendix A for details.

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