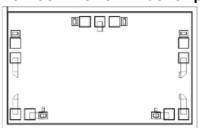
AMT1806-3 2.5 - 6GHz Power Divider Chip



Key Features:

Frequency range: 2.5 – 6GHzInput/output standing wave: 1.3

Insertion loss: 1.5dBIsolation: 26dB

• Chip dimensions: 2mm x 1.25mm x 0.1mm

• Applications: wireless communication, transceiver module, radio telecommunication etc.

Description:

AMT1806-3 is a 1-to-4 power divider chip designed by Gallium Arsenide (GaAs) process, it covers 2.5 – 6GHz frequency range, with typical 26dB isolation. This chip is designed with ground through metal vias on the back technology.

Absolute Maximum Ratings (Ta = 25°C)

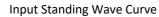
Symbol	Parameter	Value	Remark
Pin	Input Power	+37dBm	
Tch	Operating Temperature	150°C	
Tm	Sintering Temperature	310°C	30s, N ₂ protection
Tstg	Storage Temperature	-65 ~ +150°C	

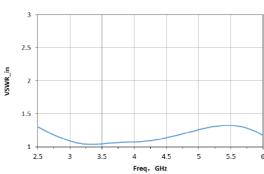
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

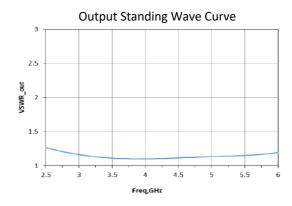
Electrical Characteristics (Ta = 25°C)

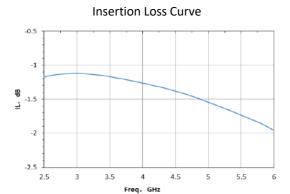
Symbol	Parameter	Test Conditions	Value		Unit	
			Min	Typical	Max	
VSWR_in	Input Standing Wave		-	1.3	1.5	
VSWR_out	Output Standing Wave	Pin = 0 dBm	-	1.3	1.5	
IL	Insertion Loss	F : 2.5 ~ 6GHz	-	1.5	2.3	dB
ISO	Isolation		25	26	-	dB

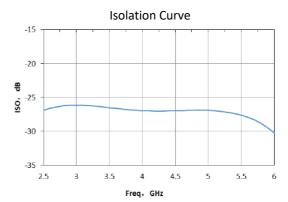
Typical Performance



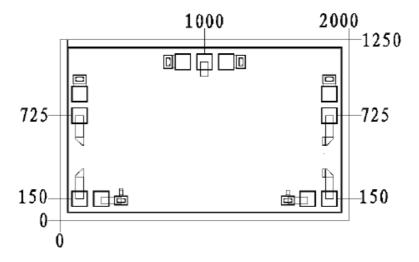




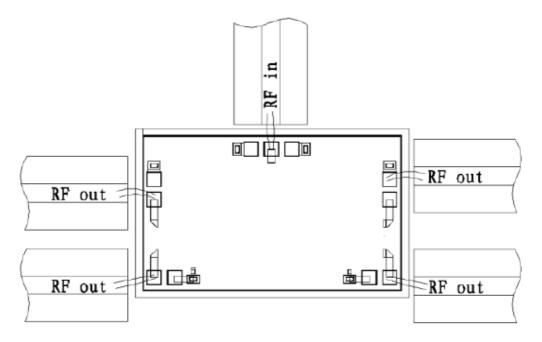




Chip Dimensions (Unit: µm)



Chip Layout Diagram



Please see Appendix A for details.