AMT3405 11 – 14.5GHz Filter

Key Features:

Pass band frequency: 11 – 14.5GHz

Centre insertion loss: 2dBIn-band standing wave: 1.8

Stop-band suppression: 30dBc@2 ~ 9.5GHz;

50dBc@20 ~ 29GHz;

• Chip dimensions: 5.95mm x 2.95mm x 0.254mm

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

Description:

AMT3405 is a high performance ceramic band-pass filter, this chip is designed with ground through metal vias on the back technology. Pass band frequency range is 11 - 14.5GHz, in-band insertion loss is less than 2dB, in-band standing wave less than 1.8.

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Parameter	Value	Remark
Pin	Input signal power	35dBm	
Та	Operation Temperature	-55 ~ +85°C	
Tstg	Storage Temperature	-65 ~ +150°C	

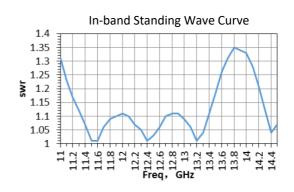
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

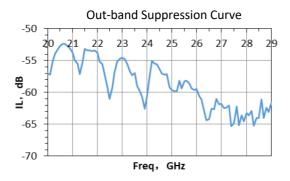
Electrical Characteristics (Ta = 25°C)

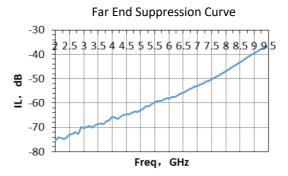
Symbol	Parameter		Test Conditions	Value			Unit
				Min	Typical	Max	
IL ₀	Centre insertion loss			ı	1.5	2	dB
SS	Out-band suppression	2 ~ 9.5GHz		30	40	-	dBc
		20 ~ 29GHz	F : 2 ~ 29GHz	50	55		
VSWR	In-band standing wave			-	1.4	1.8	-
B ₁	In-band fluctuation			-	0.5	1	dB

Typical Test Curve

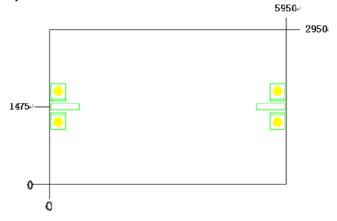








Chip Dimensions (Unit: µm)



Chip Layout Diagram

