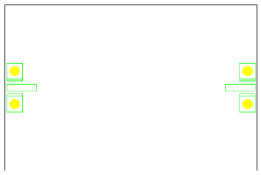
AMT3407
14 – 18GHz Filter



Key Features :

- Pass band frequency : 14 – 18GHz
- Centre insertion loss : 2dB
- In-band standing wave : 1.8
- Stop-band suppression : 40dBc@5 ~ 10GHz;
  40dBc@23 ~ 26GHz;
  40dBc@28 ~ 36GHz;
- Chip dimensions : 6.95mm x 2.75mm x 0.381mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Description :

AMT3407 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 14 – 18GHz, 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	
Ta	Operation Temperature	-55 ~ +85°C	
Tstg	Storage Temperature	-65 ~ +150°C	

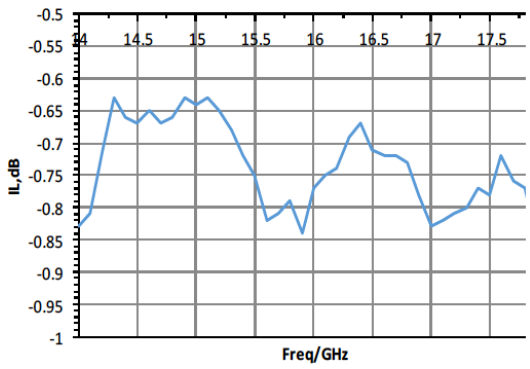
[1] Operation outside any of the Absolute Maximum Ratings may cause permanent device damage.

Electrical Characteristics (Ta = 25°C)

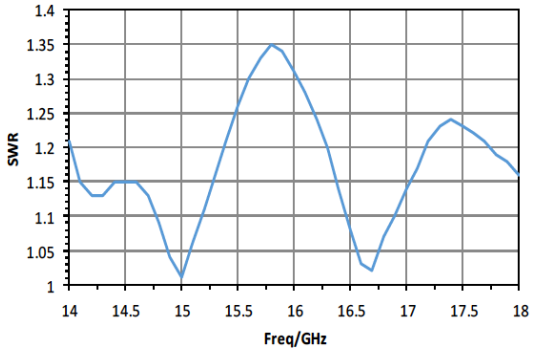
Symbol	Parameter		Test Conditions	Value			Unit
				Min	Typical	Max	
IL_0	Centre insertion loss		F : 5 ~ 36GHz	-	1	2	dB
SS	Out-band suppression	5 ~ 10GHz		40	45	-	dBc
		23 ~ 26GHz		40	45		
		28 ~ 36GHz		40	42		
VSWR	In-band standing wave			-	1.4	1.8	-
B_1	In-band fluctuation			-	0.5	1	dB

Typical Test Curve

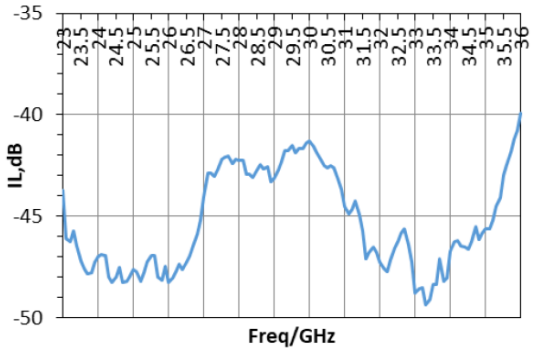
Insertion Loss Curve



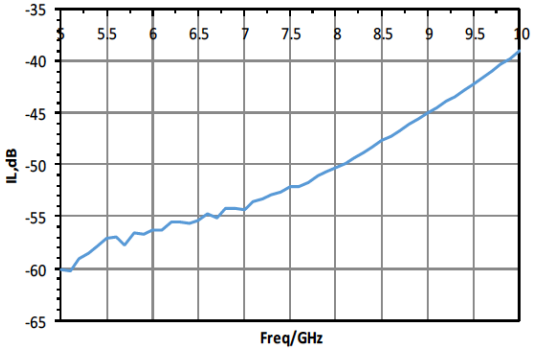
In-band Standing Wave Curve



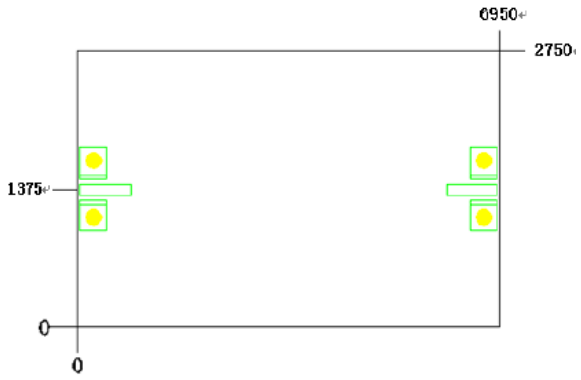
Out-band Standing Wave Curve



Far End Suppression Curve



Chip Dimensions (Unit : μm)



Chip Layout Diagram