

AMT3402
5.52 – 7.84GHz Filter



Key Features :

- Pass band frequency : 5.52 – 7.84GHz
- Centre insertion loss : 4dB
- In-band standing wave : 1.5
- Stop-band suppression : $\geq 40\text{dBc}@2.5 \sim 4\text{GHz}$;
 $\geq 41\text{dBc}@11 \sim 16\text{GHz}$;
- Chip dimensions : 7.9mm x 4.9mm x 0.254mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

Description :

AMT3402 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 5.52 – 7.84GHz, in-band insertion loss is less than 4dB, in-band standing wave less than 1.5.

Absolute Maximum Ratings (Ta = 25°C)

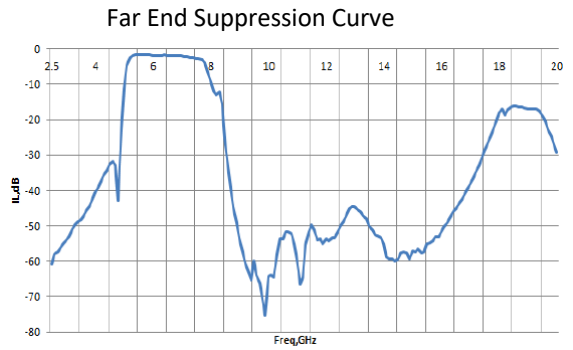
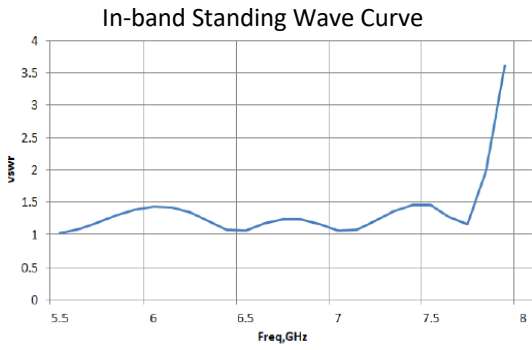
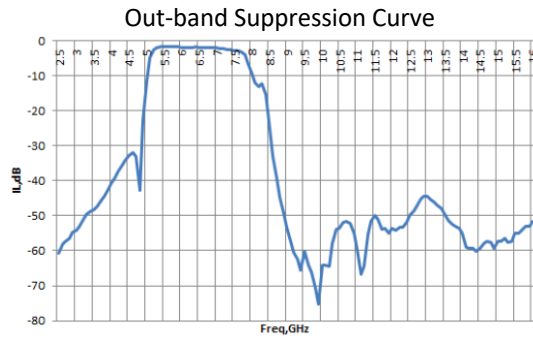
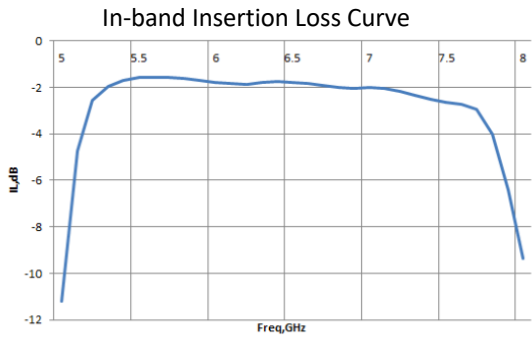
Symbol	Parameter	Value	Remark
Pin	Input signal power	35dBm	
Ta	Operation Temperature	-55 ~ +85°C	
Tstg	Storage Temperature	-65 ~ +150°C	

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

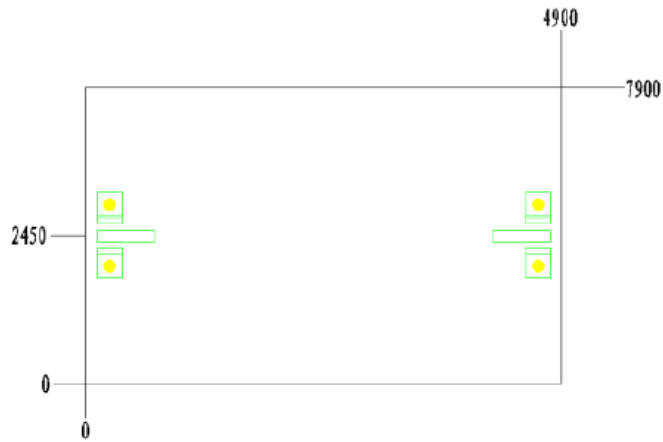
Electrical Characteristics (Ta = 25°C)

Symbol	Parameter		Test Conditions	Value			Unit
				Min	Typical	Max	
IL ₀	Centre insertion loss		F : 1 ~ 40GHz	-	2	4	dB
SS	Out-band suppression	2.5 ~ 4GHz		40	50	-	dBc
		11 ~ 16GHz		50	55		
VSWR	In-band standing wave			-	1.3	1.5	-
B ₁	In-band fluctuation		-	0.5	2	dB	

Typical Test Curve



Chip Dimensions (Unit : μm)



Chip Layout Diagram

