

**AMT3404**  
**8 – 11.5GHz Filter**



**Key Features :**

- Pass band frequency : 8 – 11.5GHz
- Centre insertion loss : 1.8dB
- In-band standing wave : 1.8
- Stop-band suppression : 30dBc@2 ~ 6.5GHz;  
40dBc@16 ~ 23GHz;
- Chip dimensions : 5.45mm x 3.45mm x 0.254mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

**Description :**

AMT3404 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 8 – 11.5GHz, in-band insertion loss is less than 1.8dB, in-band standing wave less than 1.8.

**Absolute Maximum Ratings (Ta = 25°C)**

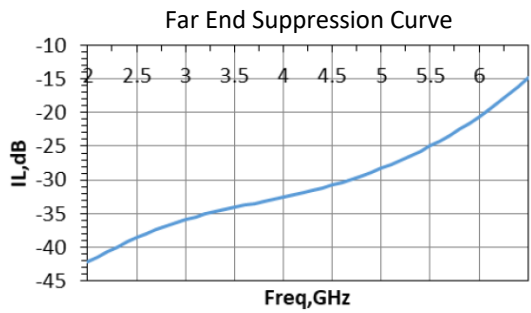
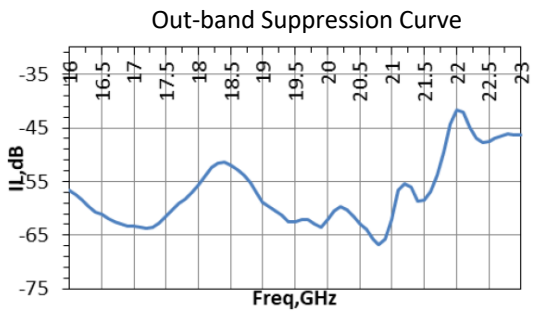
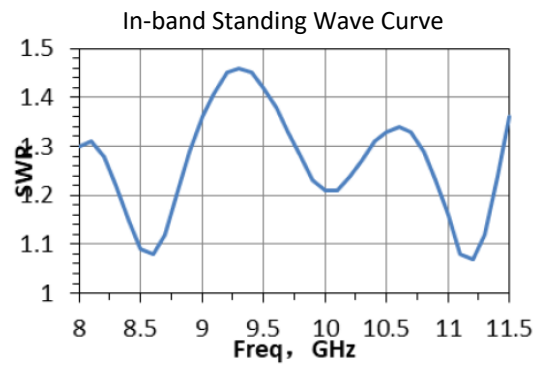
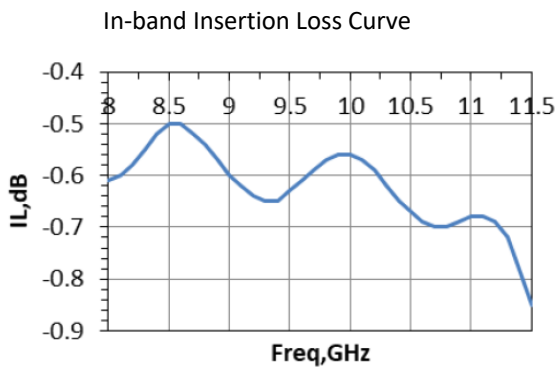
Symbol	Parameter	Value	Remark
Pin	Input signal power	35dBm	
Ta	Operation Temperature	-55 ~ +85°C	
Tstg	Storage Temperature	-65 ~ +150°C	

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

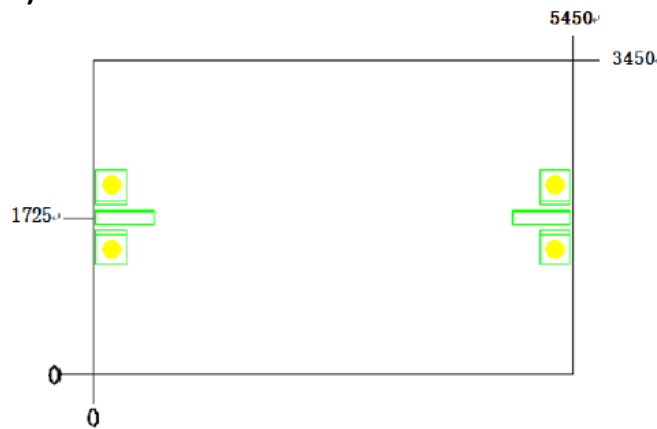
**Electrical Characteristics (Ta = 25°C)**

Symbol	Parameter		Test Conditions	Value			Unit
				Min	Typical	Max	
IL <sub>0</sub>	Centre insertion loss		F : 2 ~ 17GHz	-	2	2.5	dB
SS	Out-band suppression	2 ~ 6.5GHz		30	32	-	dBc
		16 ~ 23GHz		40	50		
VSWR	In-band standing wave			-	1.5	1.8	-
B <sub>1</sub>	In-band fluctuation			-	0.5	1	dB

**Typical Test Curve**



**Chip Dimensions (Unit :  $\mu\text{m}$ )**



**Chip Layout Diagram**

