

**AMT3406**  
**11.04 – 15.68GHz Filter**



**Key Features :**

- Pass band frequency : 11.04 – 15.68GHz
- Centre insertion loss : 5dB
- In-band standing wave : 1.6
- Stop-band suppression :  $\geq 38\text{dBc}@5 \sim 9\text{GHz}$ ;  
 $\geq 32\text{dBc}@16.5 \sim 20\text{GHz}$ ;
- Chip dimensions : 6.1mm x 2.9mm x 0.254mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

**Description :**

AMT3406 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 11.04 – 15.68GHz, in-band insertion loss is less than 5dB, in-band standing wave less than 1.5.

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

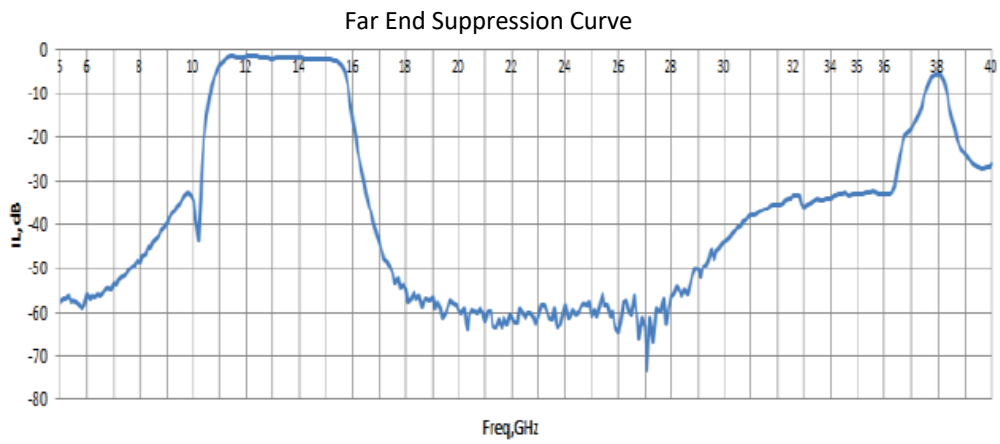
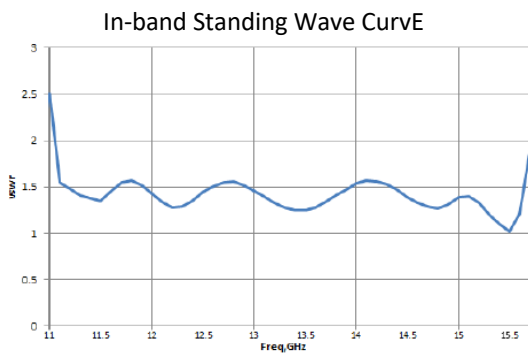
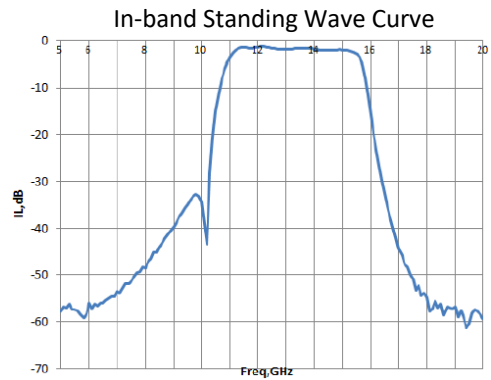
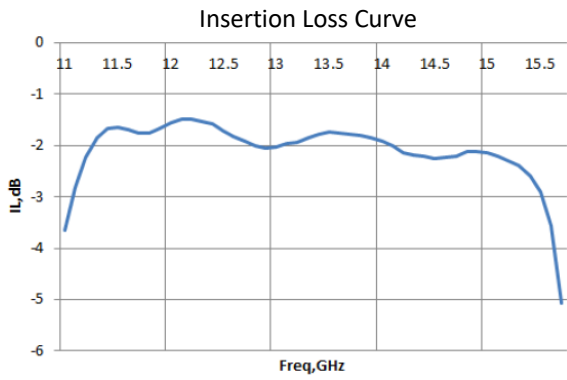
Symbol	Parameter	Value	Remark
Pin	Input signal power	35dBm	
Ta	Operation Temperature	-55 ~ +85°C	
Tstg	Storage Temperature	-65 ~ +150°C	

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

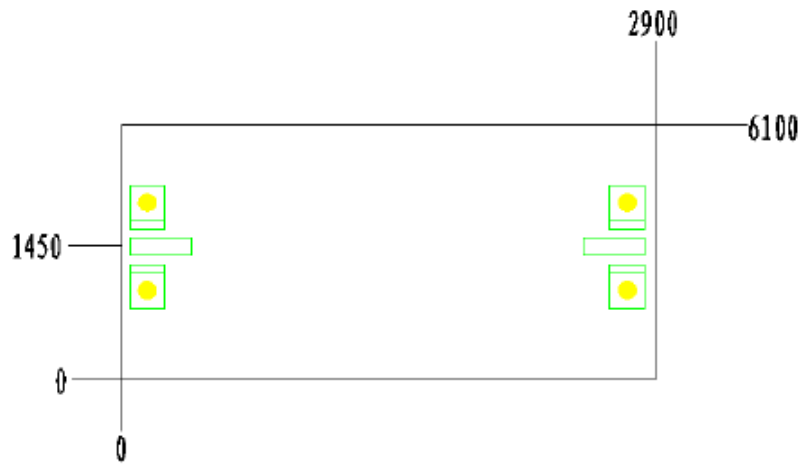
**Electrical Characteristics (Ta = 25°C)**

Symbol	Parameter		Test Conditions	Value			Unit
				Min	Typical	Max	
IL <sub>0</sub>	Centre insertion loss		F : 1 ~ 40GHz	-	2	5	dB
SS	Out-band suppression	5 ~ 9GHz		38	50	-	dBc
		16.5 ~ 20GHz		32	50		
VSWR	In-band standing wave			-	1.4	1.6	-
B <sub>1</sub>	In-band fluctuation			-	0.5	1	dB

### Typical Test Curve



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



### Chip Layout Diagram

