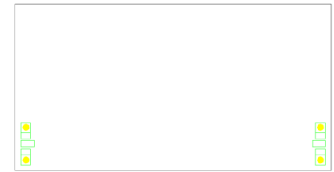


**AMT3403**  
**6 – 18GHz Filter**



**Key Features :**

- Pass band frequency : 6 – 18GHz
- Centre insertion loss : 1.1dB
- In-band standing wave : 1.8
- Stop-band suppression :  $\geq 24\text{dBc}@4\text{GHz}$ ;  
 $\geq 33\text{dBc}@3\text{GHz}$ ;
- Chip dimensions : 9.8mm x 5.1mm x 0.254mm
- Applications : wireless communication, transceiver module, radio telecommunication etc.

**Description :**

AMT3403 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 6 – 18GHz, in-band insertion loss is less than 1.1dB, in-band standing wave less than 1.8.

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

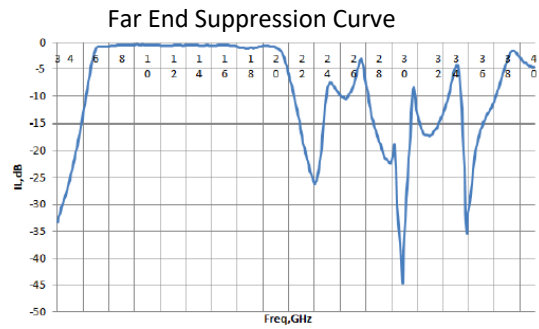
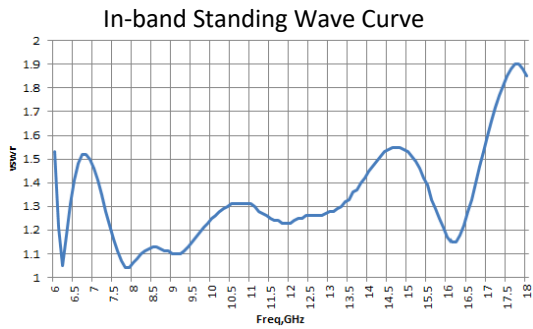
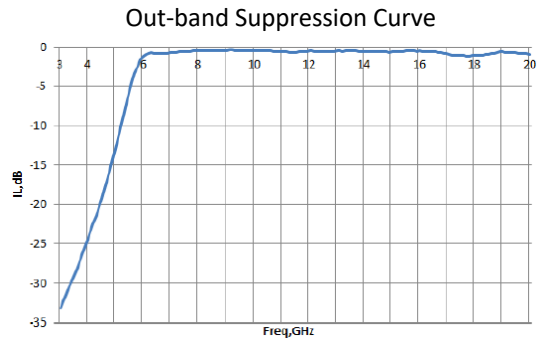
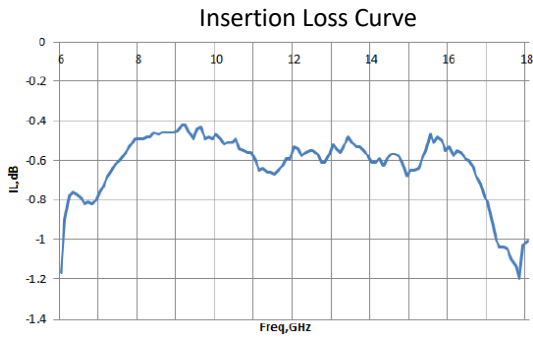
Symbol	Parameter	Value	Remark
Pin	Input signal power	35dBm	
Ta	Operation Temperature	-55 ~ +85°C	
Tstg	Storage Temperature	-65 ~ +150°C	

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

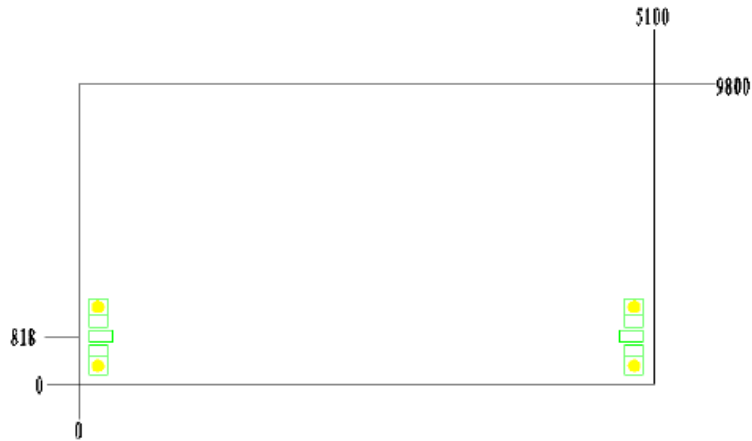
**Electrical Characteristics (Ta = 25°C)**

Symbol	Parameter		Test Conditions	Value			Unit
				Min	Typical	Max	
IL <sub>0</sub>	Centre insertion loss		F : 1 ~ 40GHz	-	0.6	1.1	dB
SS	Out-band suppression	4GHz		24	28	-	dBc
		3GHz		33	40		
VSWR	In-band standing wave			-	1.5	1.8	-
B <sub>1</sub>	In-band fluctuation		-	0.2	0.5	dB	

### Typical Test Curve



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



### Chip Layout Diagram

