

**SAW Filter 1250.0MHz**  
**Part No: MP08739**

**Model No: TA2160A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device

1. Input Power Level: 20dBm for 5min without damage
2. Input Power Level: 15dBm
3. DC voltage: 3V
4. Operating Temperature: -40°C to +85°C
5. Storage Temperature: -55°C to +125°C
6. Moisture Sensitivity Level: Level 1 (MSL 1)
7. ESD 50V(MM), 100V(HBM)

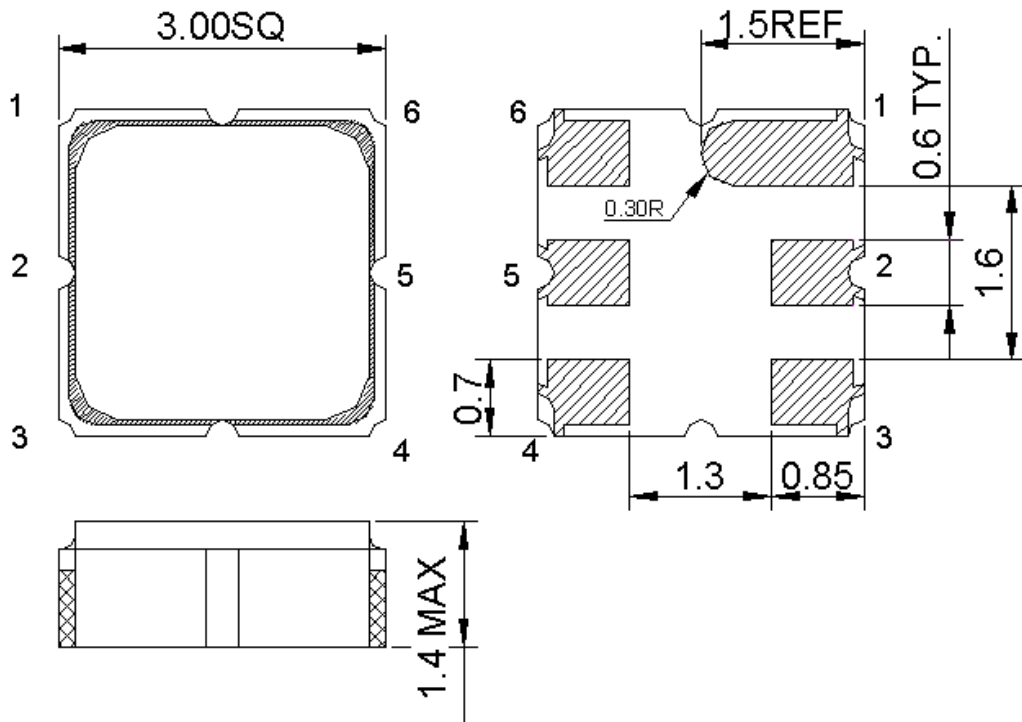
**B. ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1250	-
Minimum Insertion loss IL	dB	-	2.9	3.5
Amplitude ripple (1246 ~ 1254MHz)	dB	-	0.4	1
Group Delay (1246 ~ 1254MHz)	ns	-	34	40
Deviation from linear phase (1246 ~ 1254MHz)	deg	-	3	5
VSWR (1246 ~ 1254MHz)		-	1.7	1.9
Attenuation (Reference level from IL)				
DC ~ 1180MHz	dB	48	50	-
1320 ~ 1700MHz	dB	50	52	-
1700 ~ 2400MHz	dB	40	42	-
2400 ~ 3600MHz	dB	33	35	-
3600 ~ 5000MHz	dB	3	5	-
Temperature Coefficient	ppm/°C	-	-36	-
Source impedance Z <sub>S</sub>	Ω	-	50	-
Load impedance Z <sub>L</sub>	Ω	-	50	-

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**C. OUTLINE DRAWING:**



2: Input  
5: Output  
1, 3, 4, 6: Ground  
Unit: mm

**Notes:**

The base material is ceramic with Au over Ni plating.

The plating thicknesses are:

Electro Ni: 1.27 ~ 8.89 $\mu$ m.

Electro Au: 0.3 ~ 1.0 $\mu$ m (solder pads only).

0.3 $\mu$ m Min. (Others)

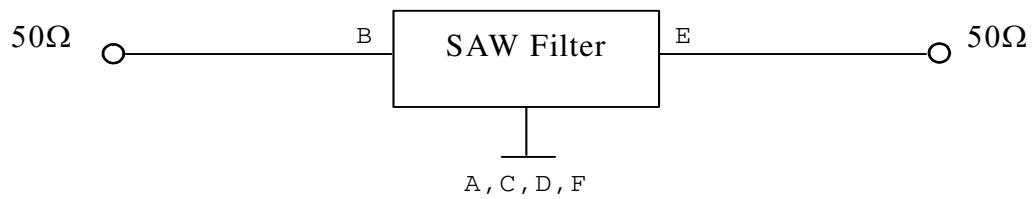
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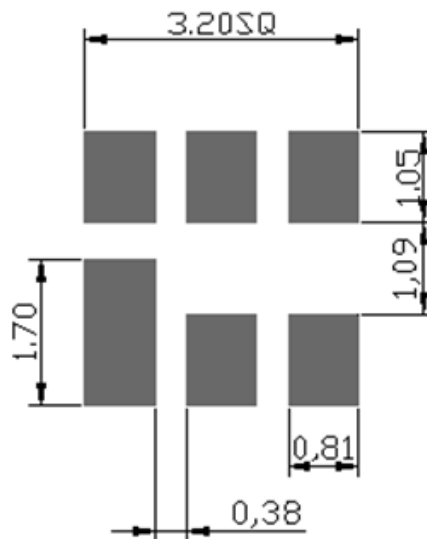
**D. MEASUREMENT CIRCUIT:**

50 Ohm Test circuit (single-ended / single-ended)

HP Network analyzer



**E. PCB FOOTPRINT:**

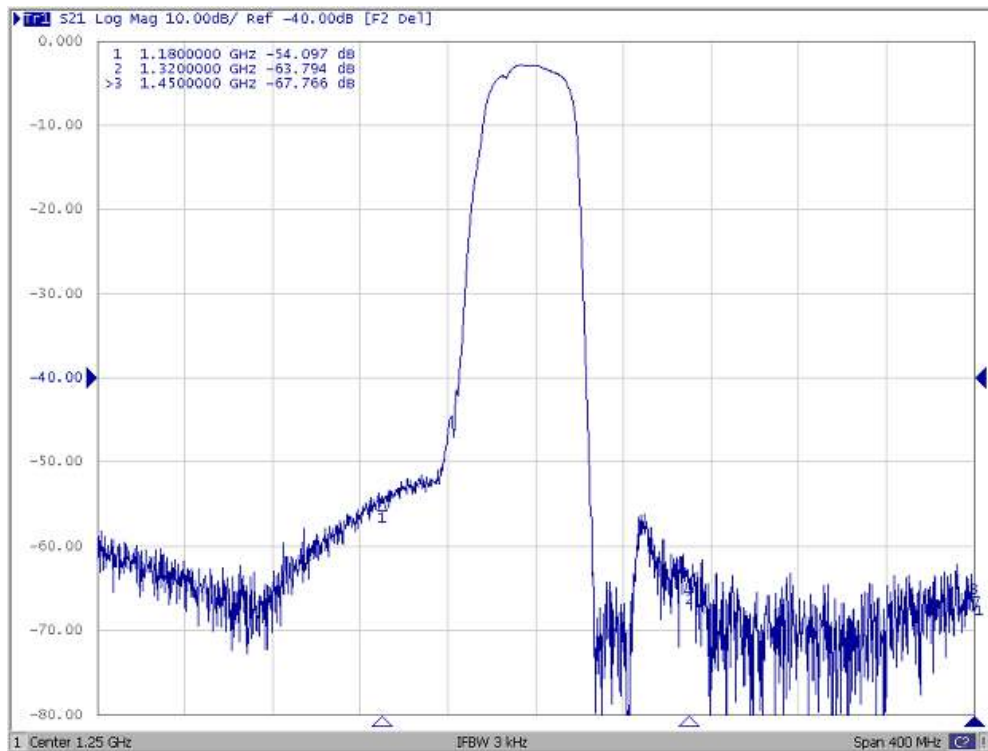
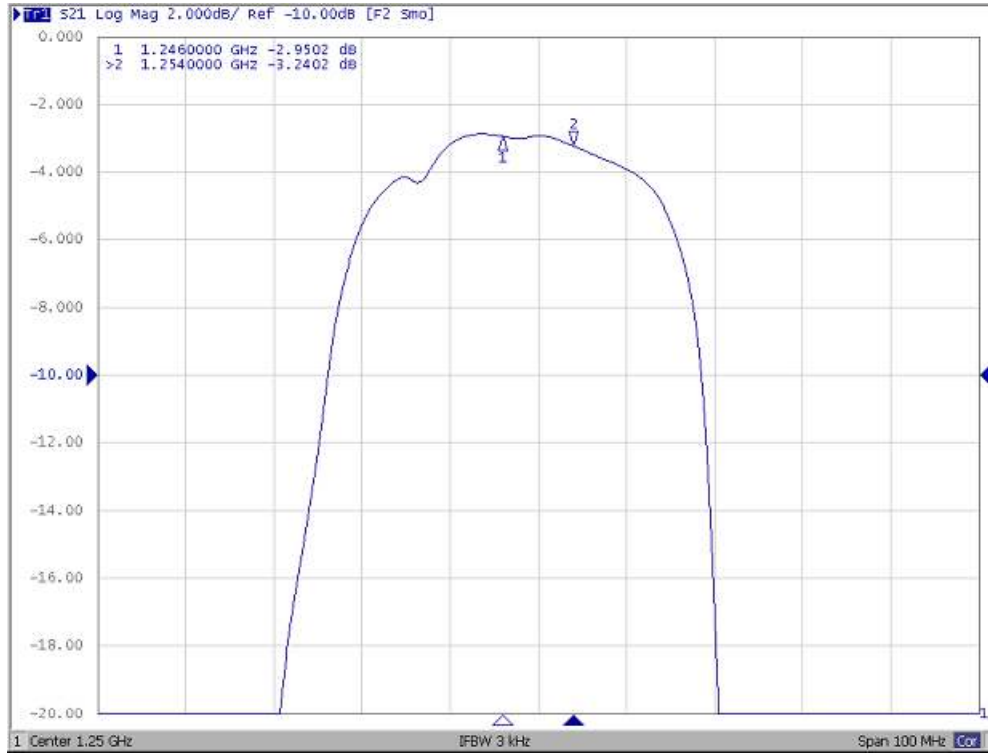


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**F. FREQUENCY CHARACTERISTICS:**

1. Transfer function

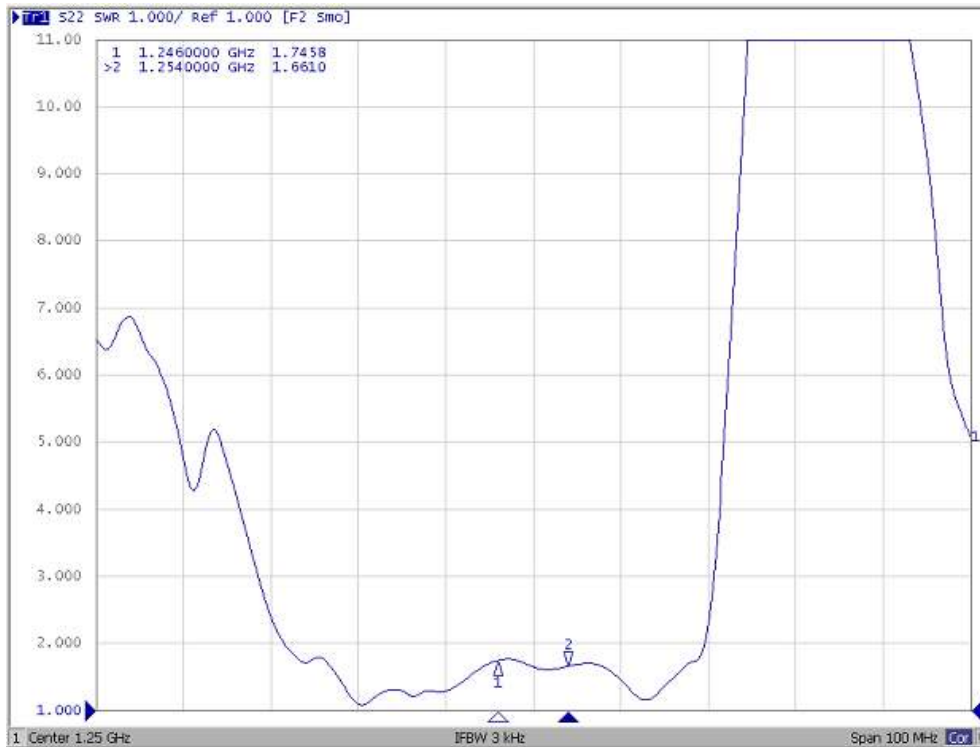
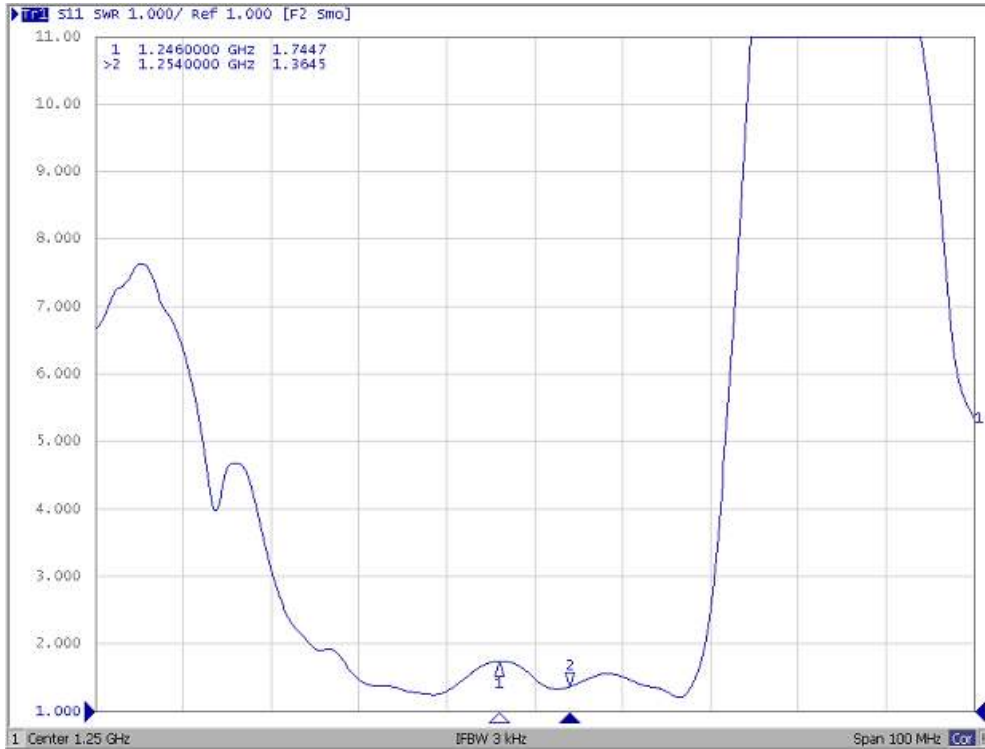




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## 2. Reflection functions



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### 3. Group delay



### 4. Linear Phase

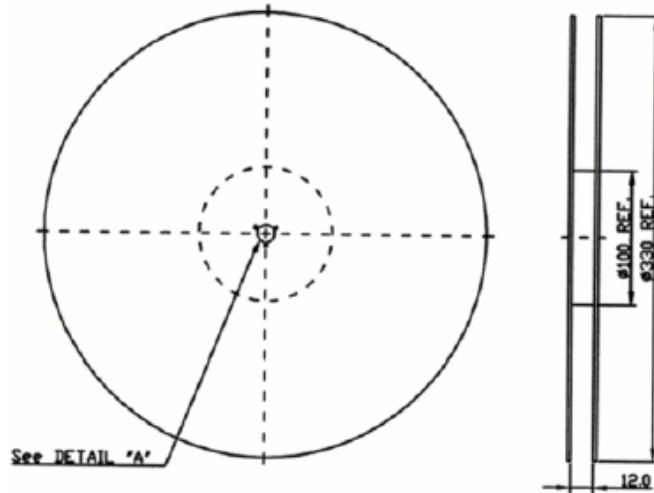


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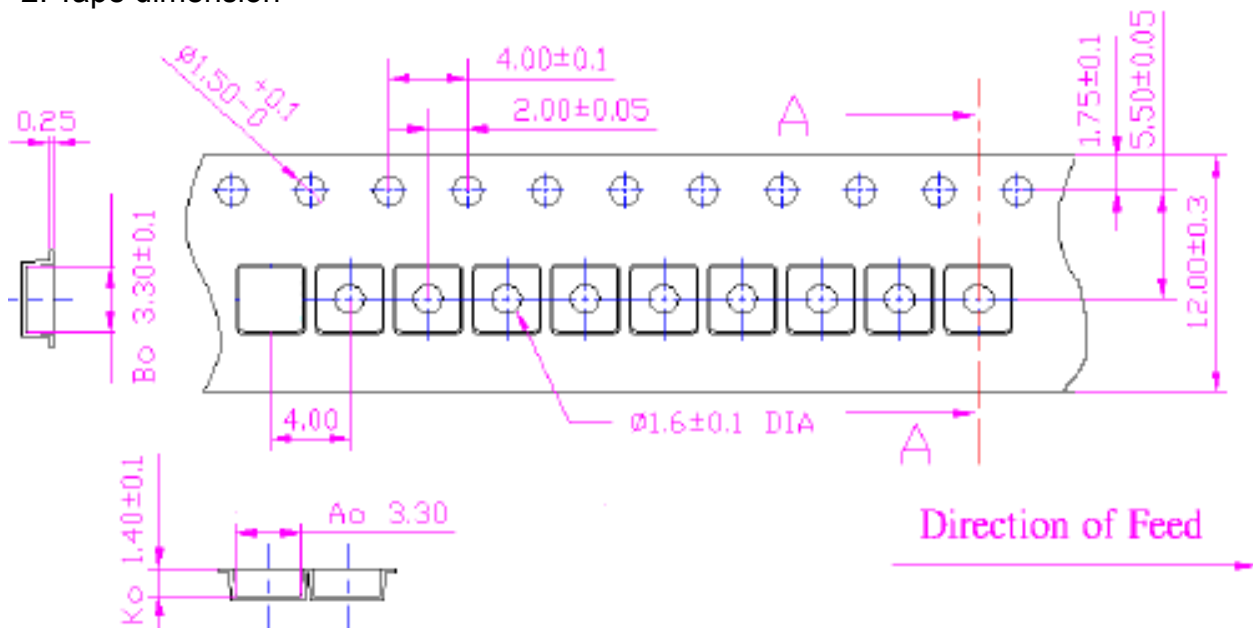
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**G. PACKING:**

1. Reel Dimension



2. Tape dimension





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**H. RECOMMENDED REFLOW PROFILE:**

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

