

SAW Filter 240.0MHz
Part No: MP03312

Model: TB0391A
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 10V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level: Level 1 (MSL1)

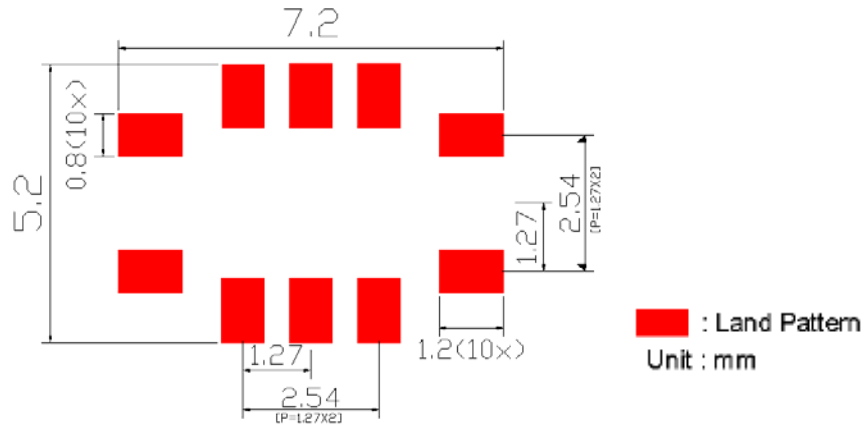
B. ELECTRICAL CHARACTERISTICS:

Parameters Description	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	239.5	240.0	240.5
Minimum Insertion Loss IL	dB	-	9.4	14
1dB Bandwidth	MHz	5.0	5.5	-
3dB Bandwidth	MHz	-	6.8	7.2
40dB Bandwidth	MHz	-	10.4	13.0
Group Delay Ripple (237.5 ~ 242.5MHz)	nsec	-	50	200
Amplitude Ripple (237.5 ~ 242.5MHz)	dB	-	0.8	1.0
Phase Linearity (237.5 ~ 242.5MHz)	rms	-	3.0	-
Attenuation (Reference level from Minimum IL)				
10 ~ 233MHz	dB	45	50	-
247 ~ 470MHz	dB	45	48	-

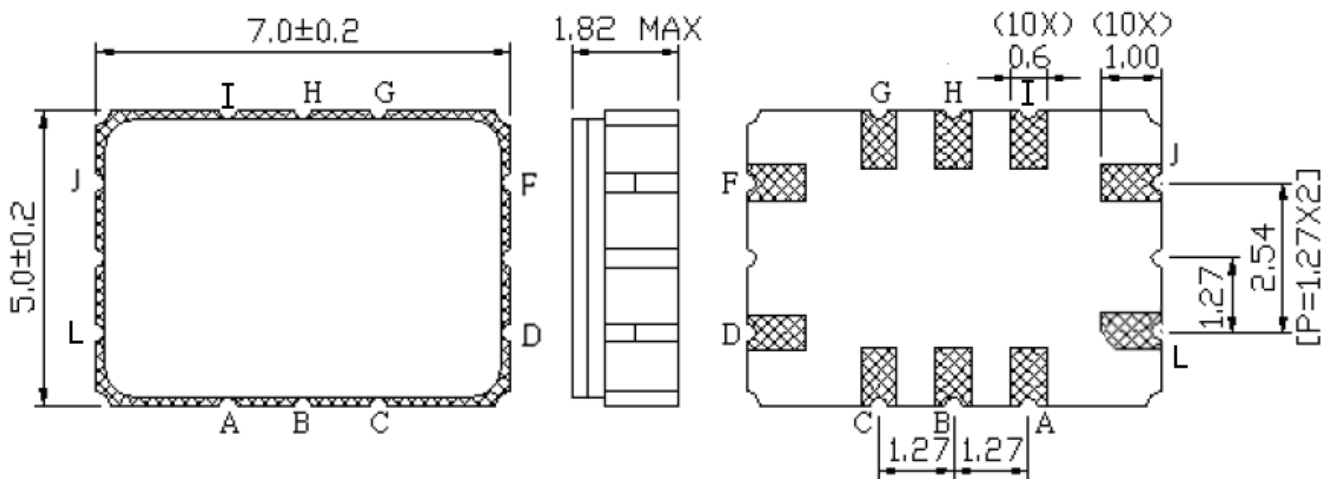
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C. PCB FOOTPRINT:

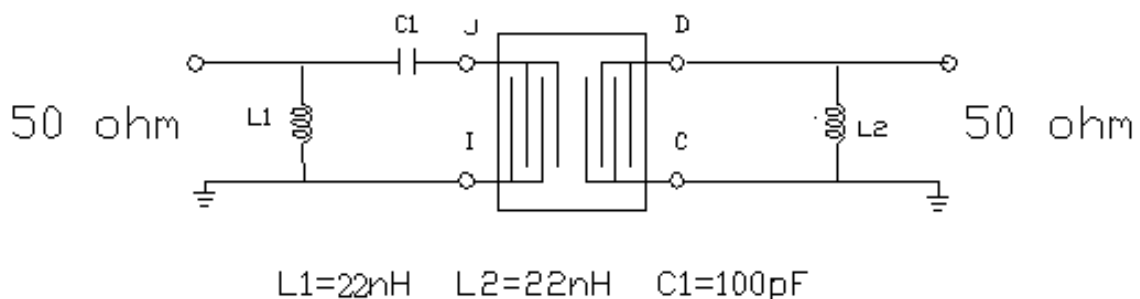


D. OUTLINE DRAWING:



J: Unbalanced Input
 D: Unbalanced Output
 A, B, C, F, G, H, I, L: To be ground
 Unit: mm

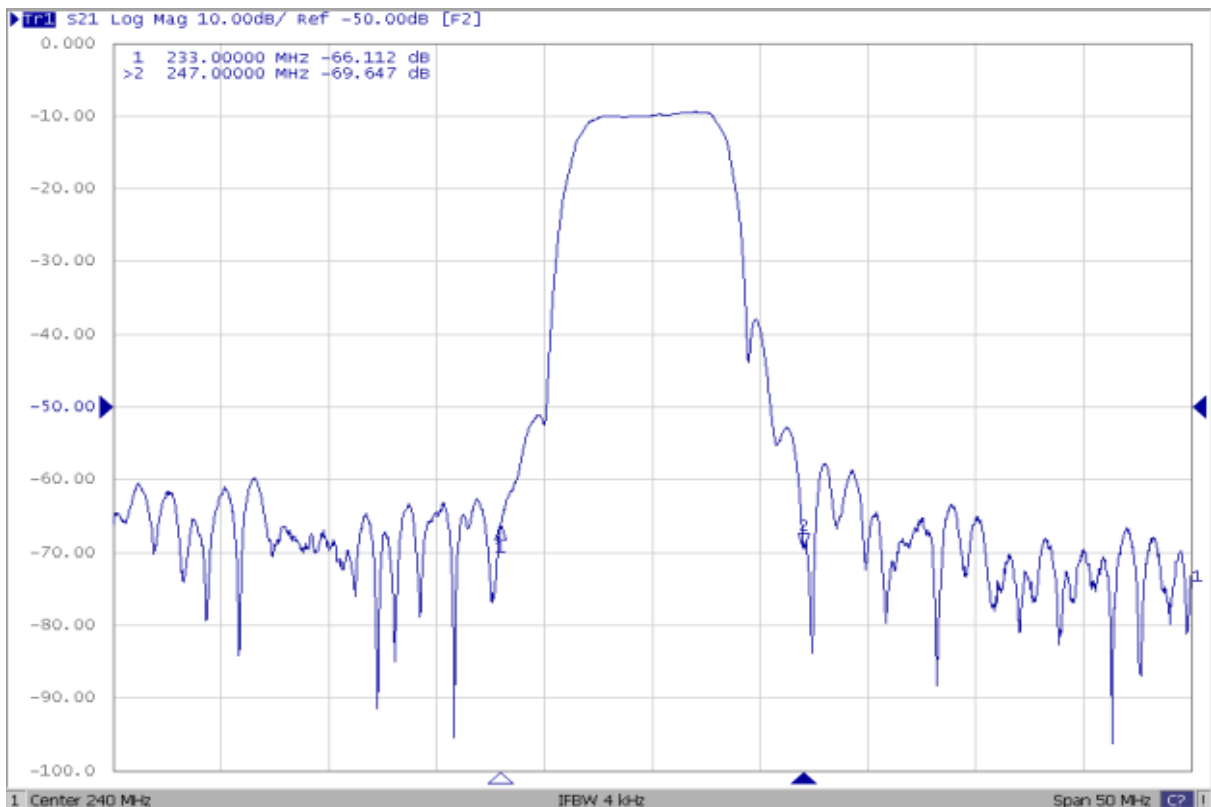
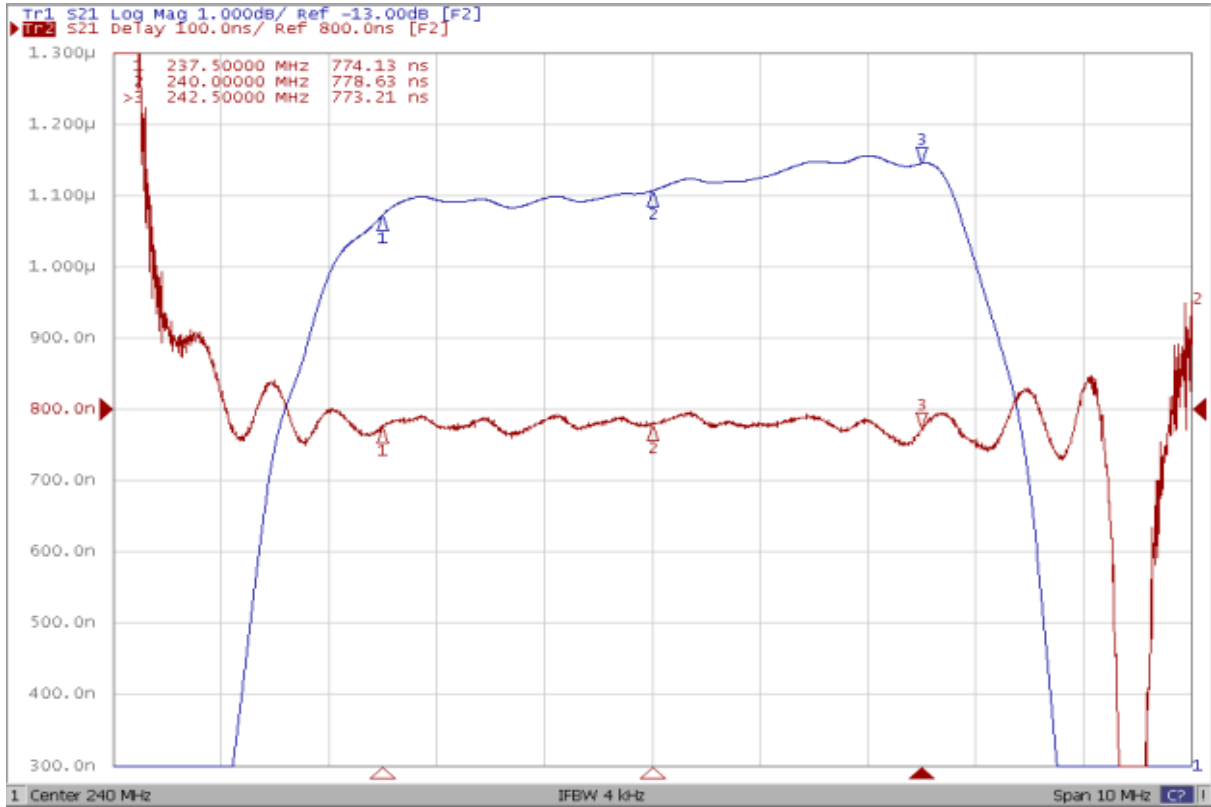
E. MEASUREMENT CIRCUIT:



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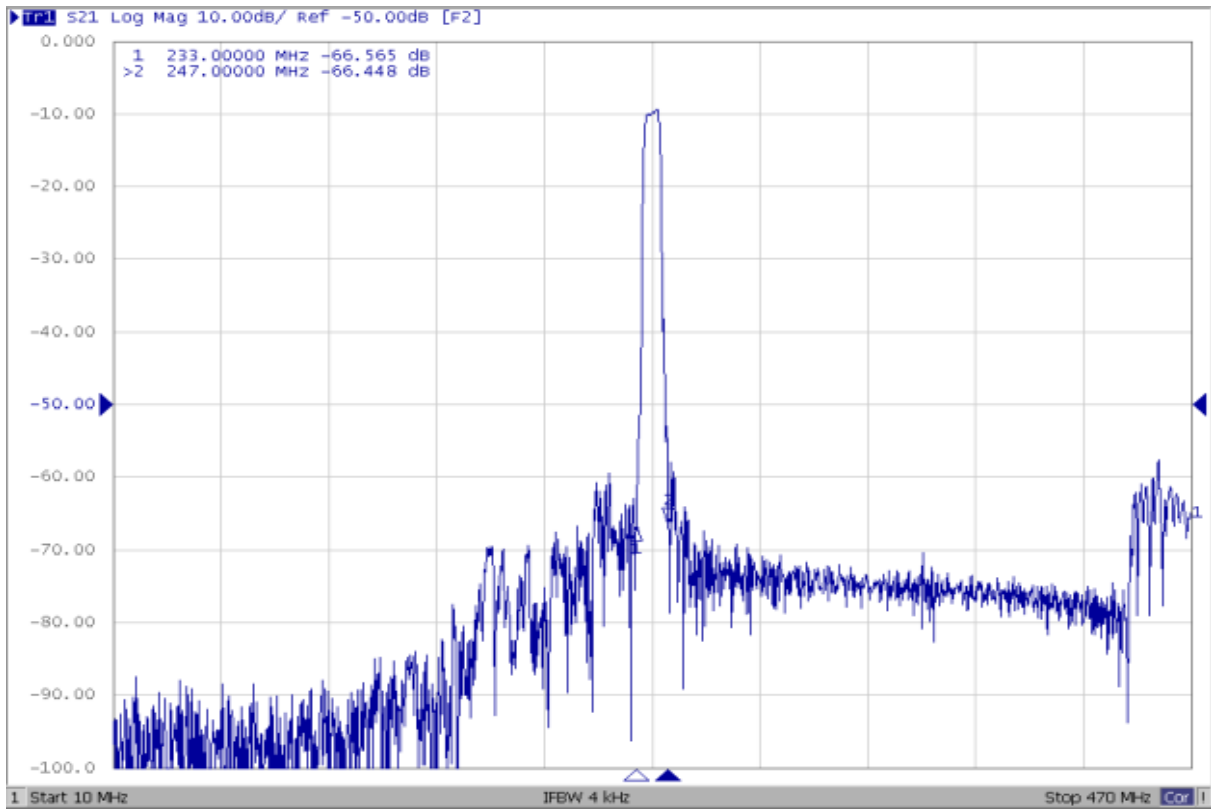
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F. FREQUENCY CHARACTERISTICS:



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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. Repeats: Twice maximum

