

SAW Filter 156.80MHz
Part No: MP09751

Model: TB1368A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

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

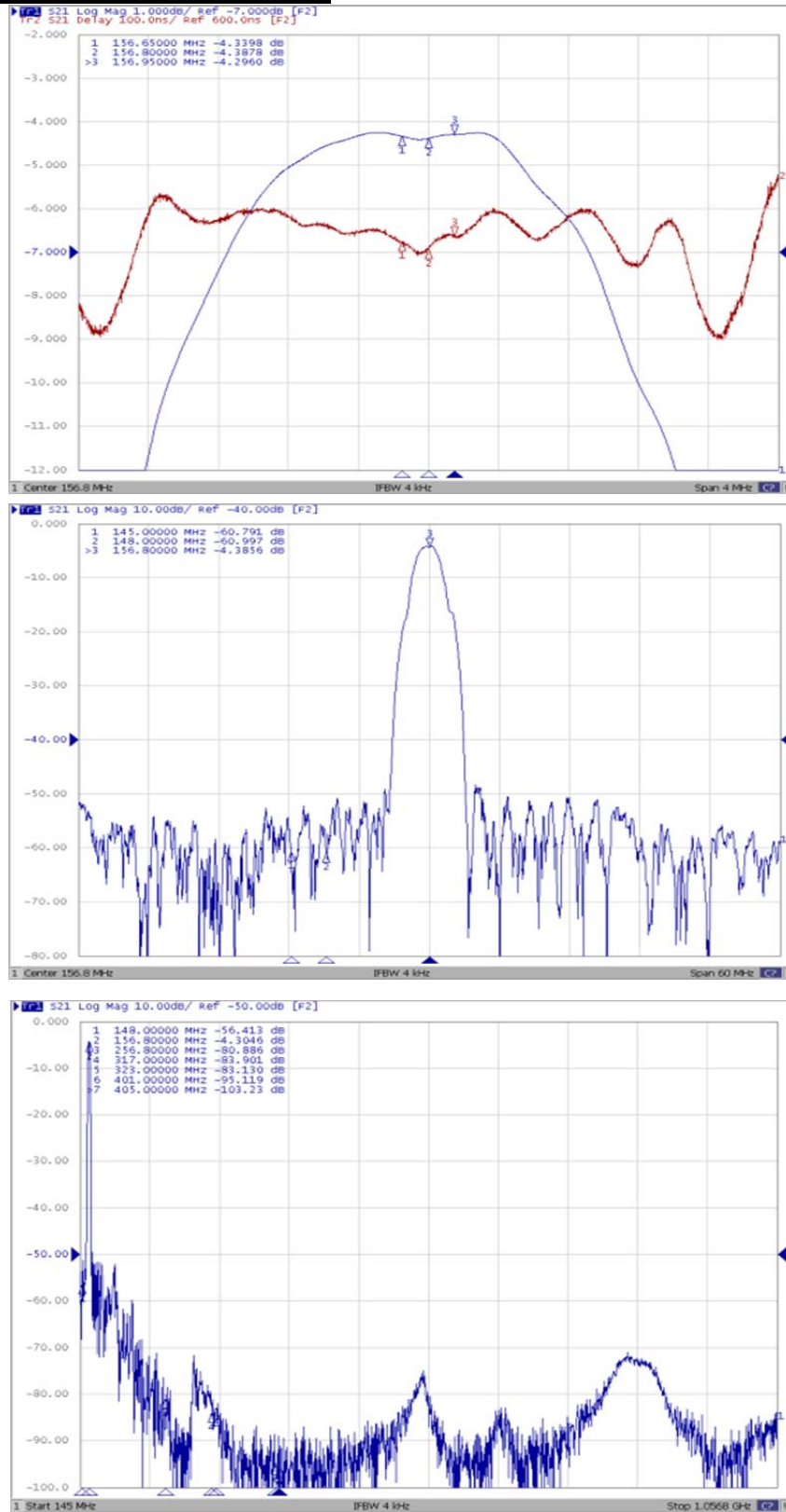
B. ELECTRICAL CHARACTERISTICS:

Parameters Description	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	156.8	-
Minimum Insertion Loss IL min	dB	-	4.3	8.0
-1dB Bandwidth	MHz	0.3	1.4	-
-3dB Bandwidth	MHz	-	2.1	-
-40dB Bandwidth	MHz	-	6.2	7.0
Amplitude Ripple (Fc ±150kHz)	dB	-	0.2	1.0
Group Delay Variation (Fc ±150kHz)	nsec	-	55	500
Absolute Group Delay	nsec	-	620	-
Attenuation (Reference level from IL min)				
145 ~ 148MHz	dB	30	47	-
317 ~ 323MHz	dB	35	74	-
401 ~ 405MHz	dB	35	80	-
256.8 ~ 1056.8MHz	dB	35	64	-
Temperature coefficient of frequency	ppm/°C	-23		

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C. FREQUENCY CHARACTERISTICS:

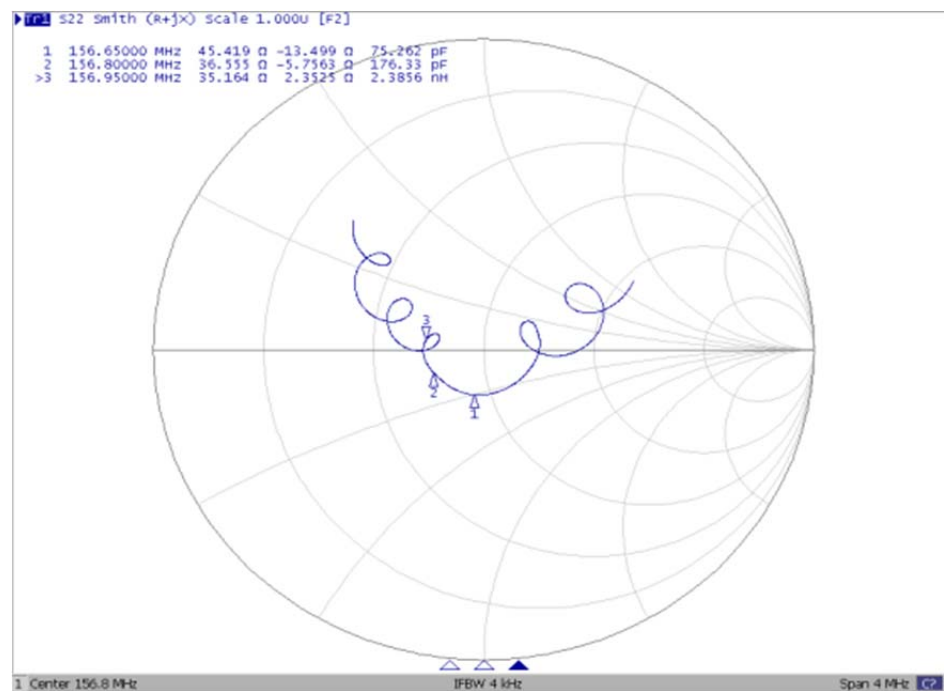
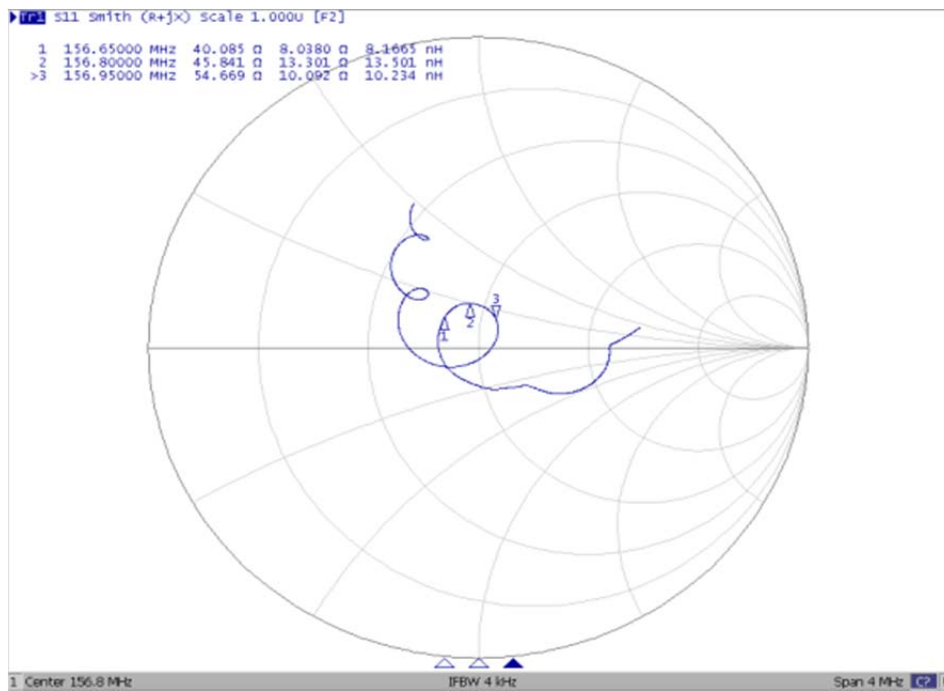


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Reflection Functions:

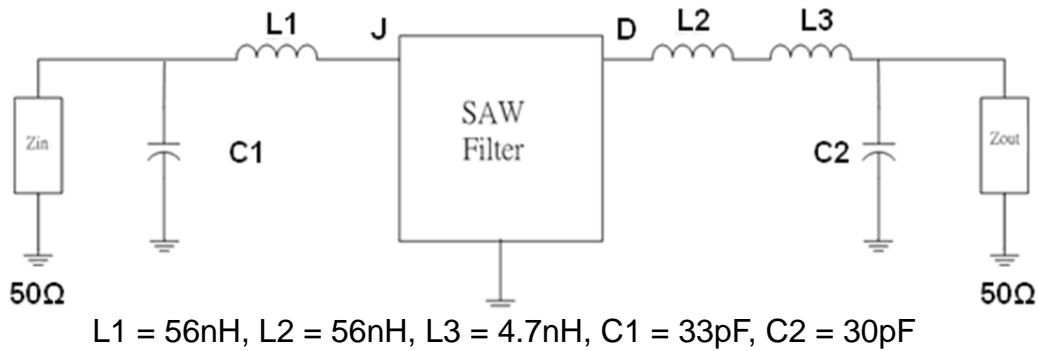
Smith Chart



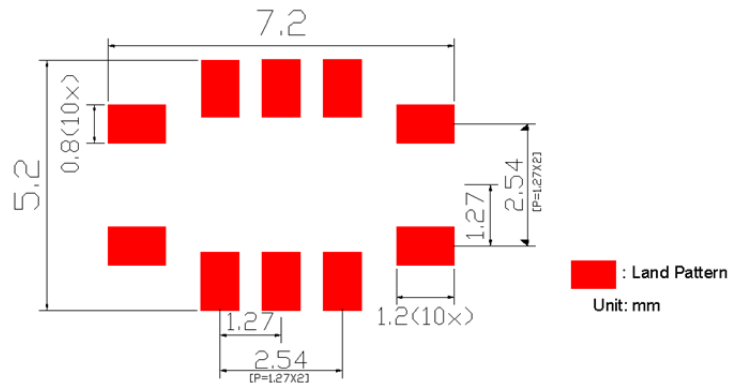
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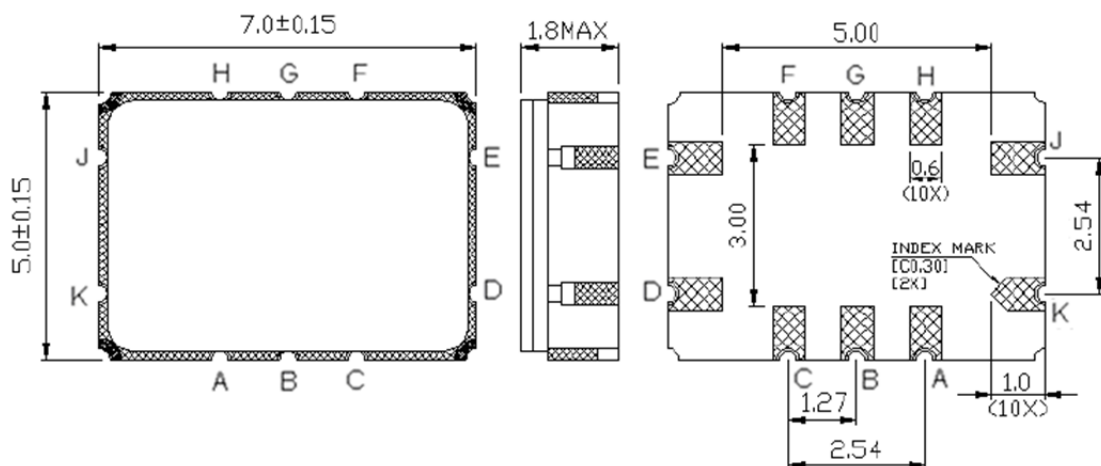
D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:



F. OUTLINE DRAWING:



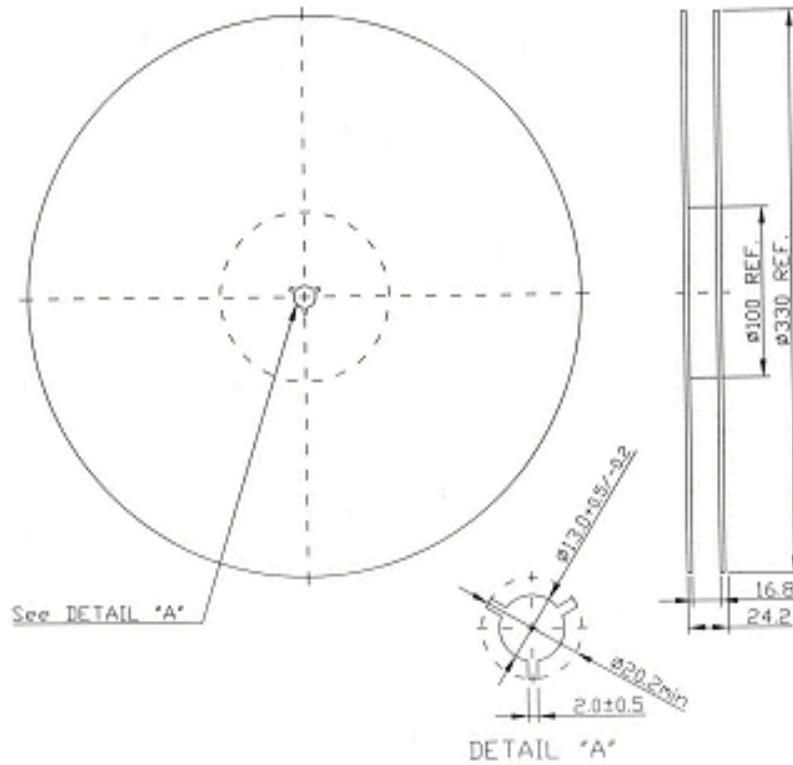
- J: RF input
 - K: RF input ground
 - D: RF output
 - E: RF output ground
 - A, B, C, F, G, H: Ground
- Unit: mm

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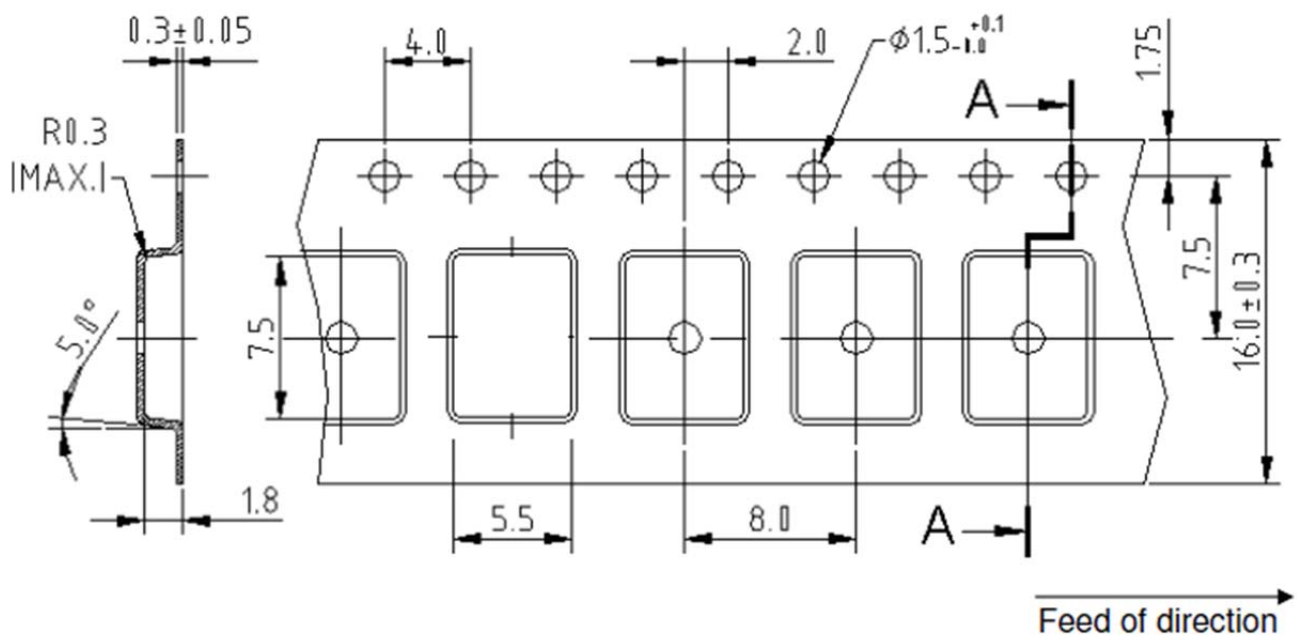
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G. PACKING:

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.

