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Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

SAW Filter 352.0MHz — Model: TB352FD-1
Part No: MA09411 — Rev. No: 3

A. MAXIMUM RATING:

Electrostatic **S**ensitive **D**evice

1. Input Power Level: 10dBm
2. DC voltage: $0V_{DC}$
3. Operating Temperature: -25°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

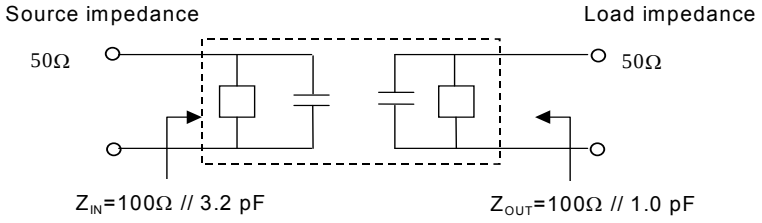
B. ELECTRICAL CHARACTERISTICS:

Item	Min.	Typ.	Max.	Note
Center frequency Fc (MHz)	-	352	-	1
Minimum Insertion loss IL min (dB)	-	2.5	3.5	1
Amplitude Ripple within 346 ~ 358MHz (dB)	-	1.4	3.0	1
Group Delay Ripple within: 346.0 ~ 358MHz (ns) 346.5 ~ 358MHz (ns)	 - -	 50 45	 170 120	1
Pass Bandwidth BW -3dB (MHz)	14.0	15.5		
Attenuation: (Reference level from IL min) (dB) 300 to 333MHz (dB) 333 to 341MHz (dB) 363 to 366MHz (dB) 366 to 371MHz (dB) 371 to 374MHz (dB) 374 to 392MHz (dB) 392 to 400MHz (dB)	 45 11 11 22 25 34 45	 55 34 18 25 35 36 54	 - - - - - - -	 1

Impedance at Fc:
Input: $Z_{IN} = R_{IN} // C_{IN}$
Output: $Z_{OUT} = R_{OUT} // C_{OUT}$
	
	100Ω // 3.2pF
	100Ω // 1.0pF
				2

Note 1: The standard definition is in JIS C 6703.

Note 2:



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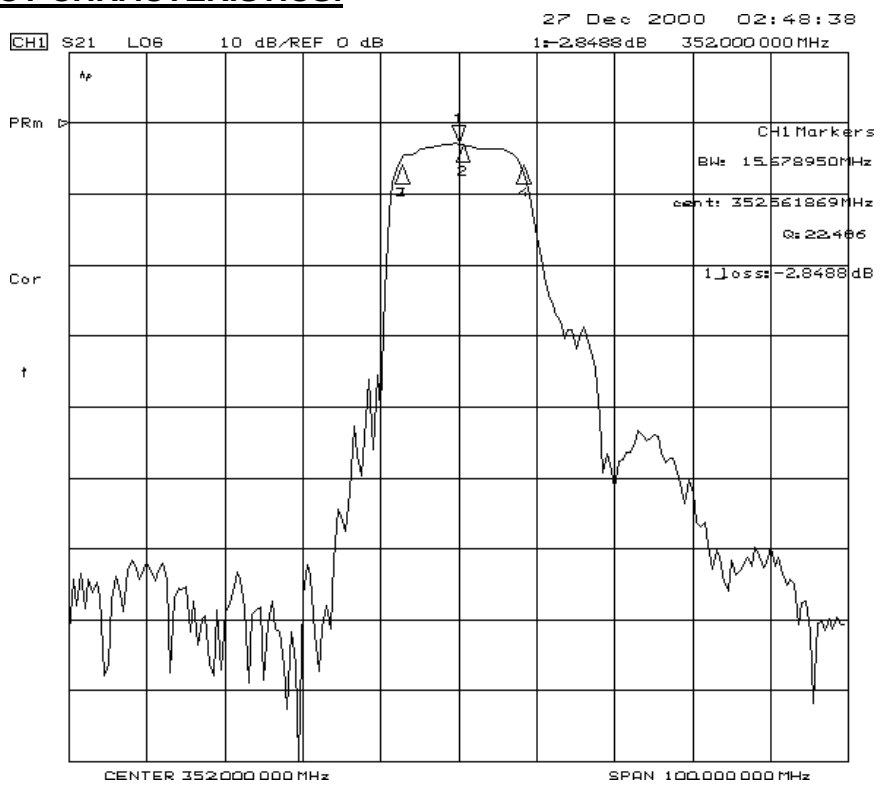
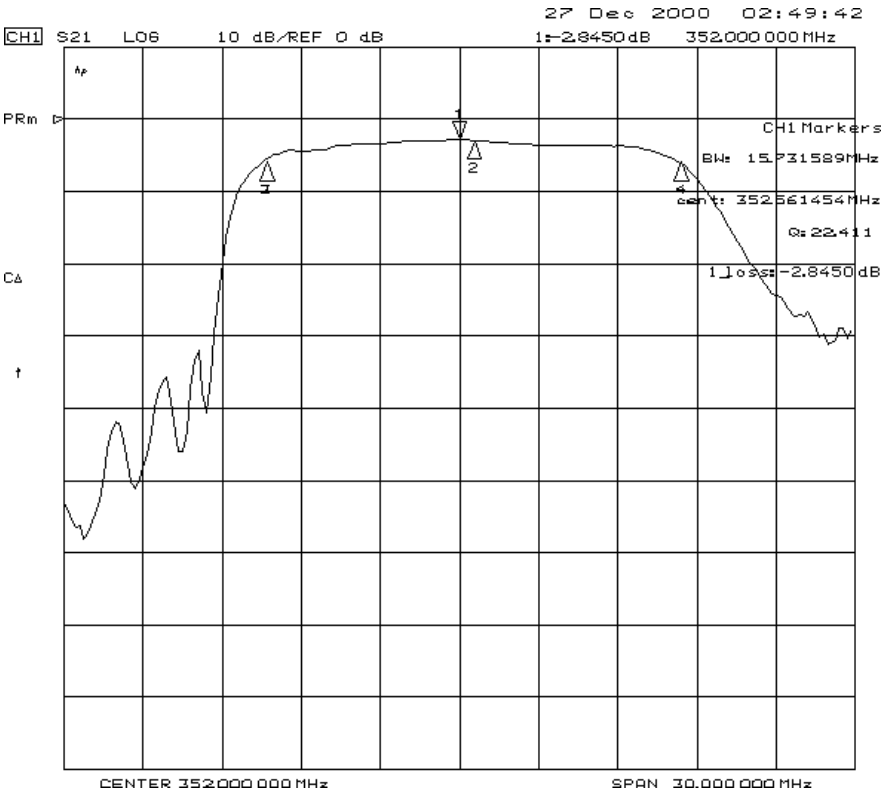
C. FREQUENCY CHRACTERISTICS:





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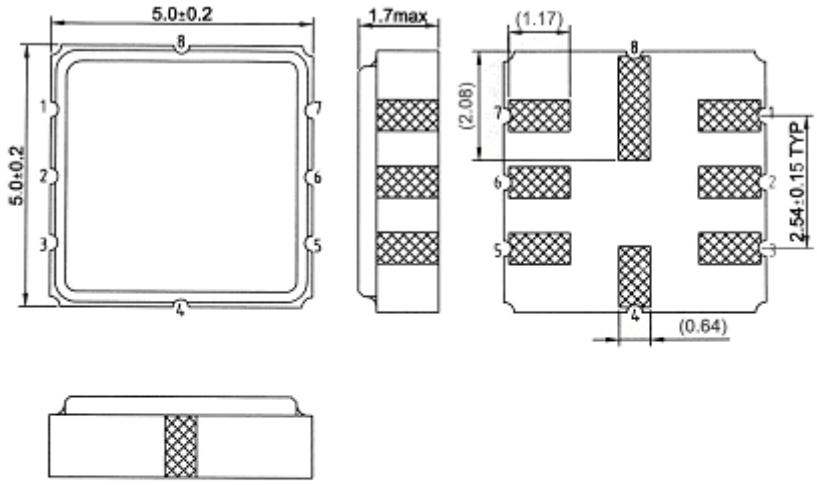
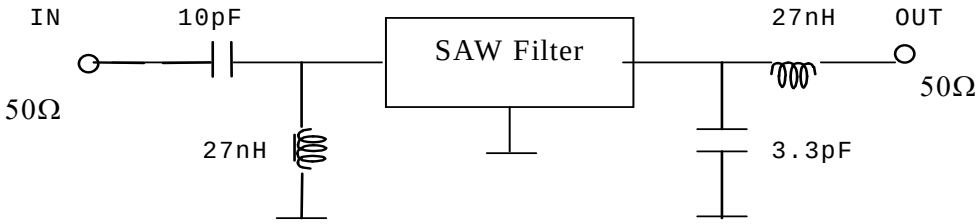
D.OUTLINE DRAWING:



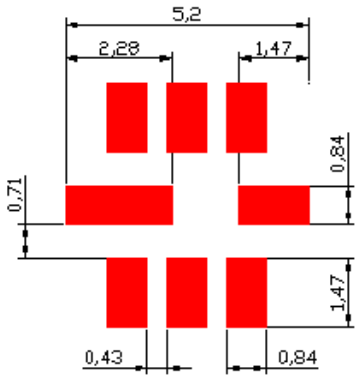
#2、3：Input, Input Ground or bal. Input
#6、7：Output, Output Ground or bal. Output
#1、5：Ground
#4、8：Case Ground

E. MEASUREMENT CIRCUIT:

HP Network analyzer



F. PCB FOOTPRINT:



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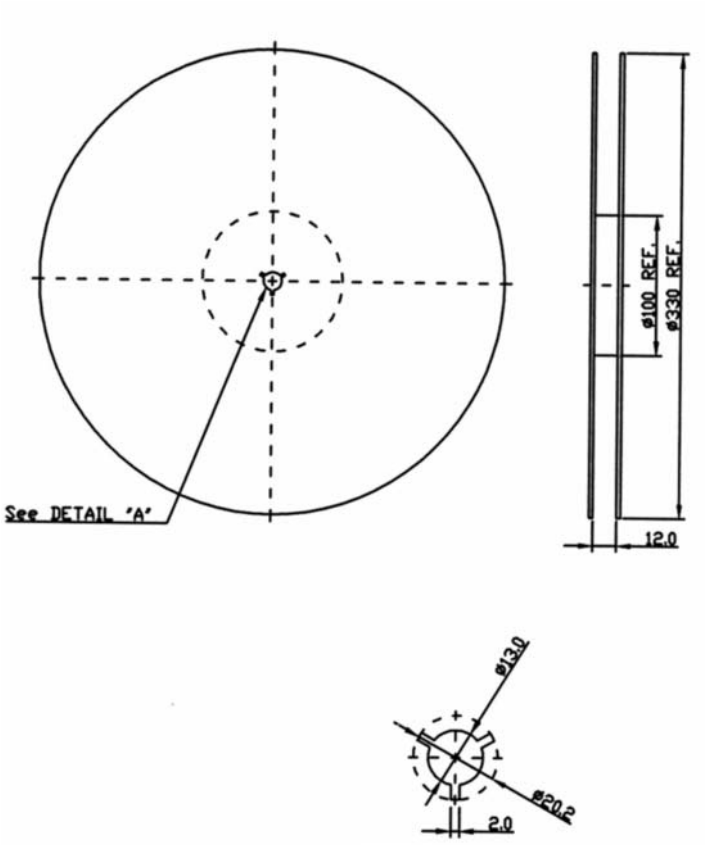
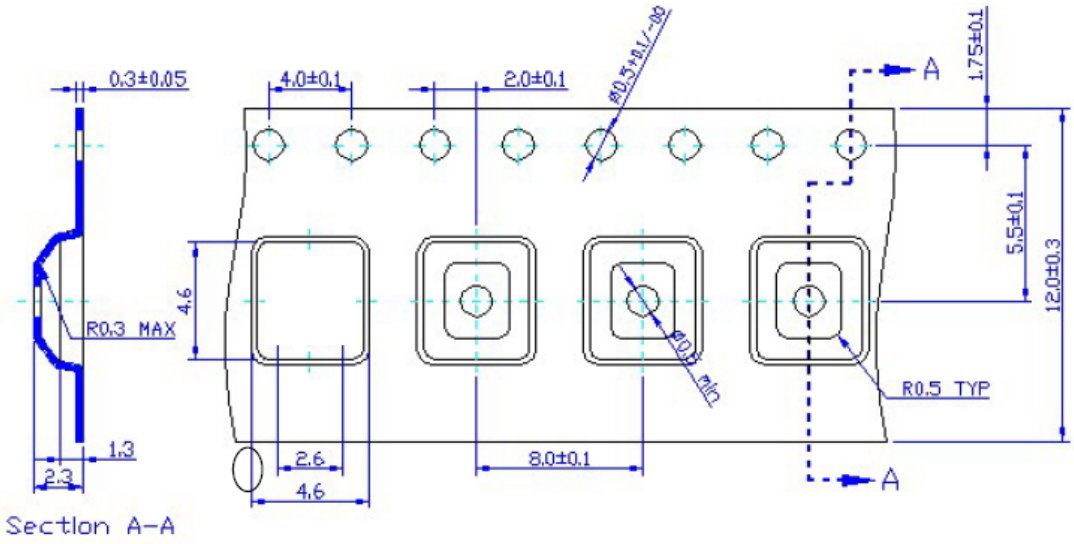
G. PACKING:

1. Reel dimension:



2. Tape dimension:



Direction of Feed →

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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.