

SAW Filter 1382.240MHz

Model: TA1623A

Part No: MP08173

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: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): $Z_S = 150\Omega // 22nH$
2. Terminating load impedance (differential): $Z_L = 150\Omega // 22nH$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1382.24	-	-
Bandwidth at -2dB	MHz	46	67	-	-
Insertion Loss in 1359.24 ~ 1405.24MHz	dB	-	2.9	5	-
Amplitude ripple (1359.24MHz ~ 1405.24MHz)	dB	-	0.9	2	-
Phase error (1359.24MHz ~ 1405.24MHz) (3)	deg	-	3	6	-
I/O VSWR (1359.24MHz ~ 1405.24MHz)		-	1.8	2	-
CMDR (1359.24MHz ~ 1405.24MHz)	dB	22	28	-	-
Attenuation (1)					
50 ~ 1300.18MHz	dB	40	52	-	-
1474.3 ~ 1810.5MHz	dB	40	49	-	-
1810.5 ~ 3000MHz	dB	35	45	-	-
3000 ~ 6000MHz	dB	20	29	-	-

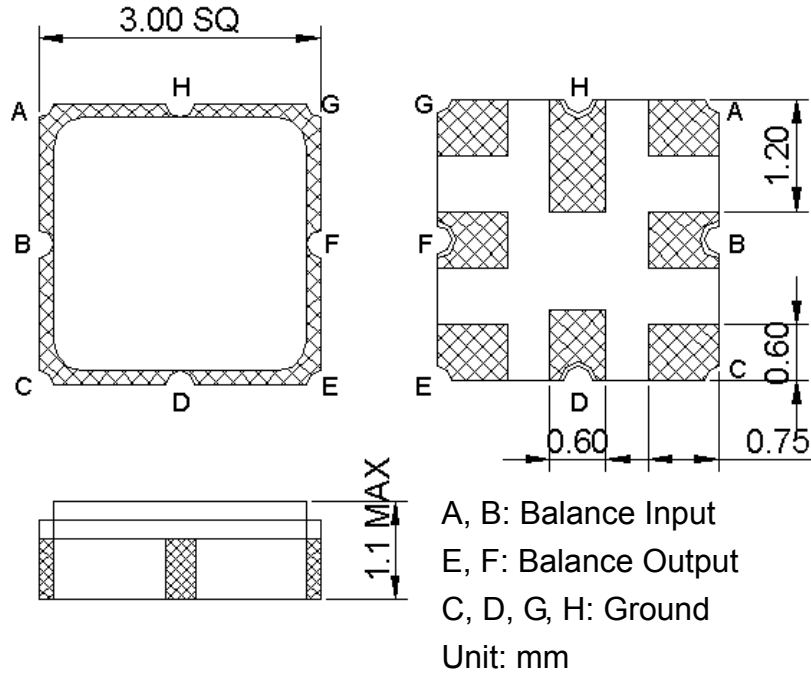
Notes:

1. The amplitude reference is insertion loss at Fc.
2. The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
3. The phase error is measured over any 30 MHz block of the given bandwidth.

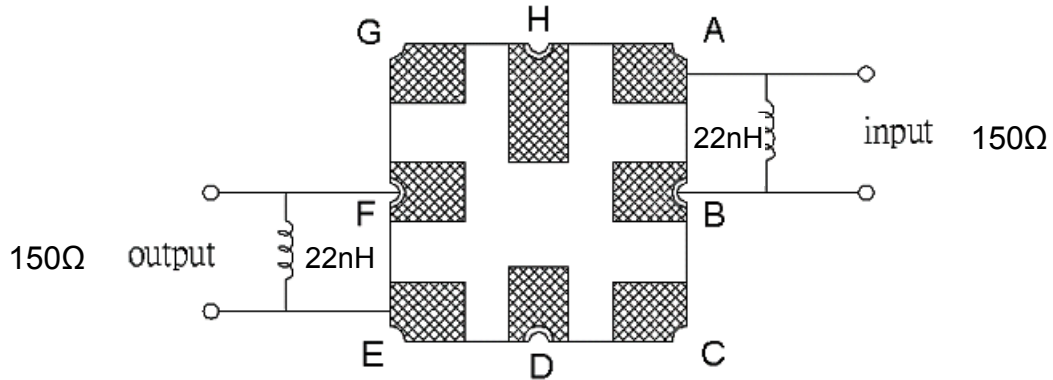
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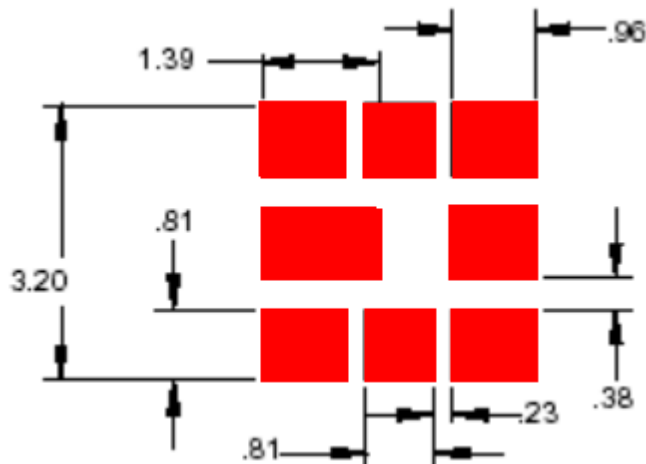
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



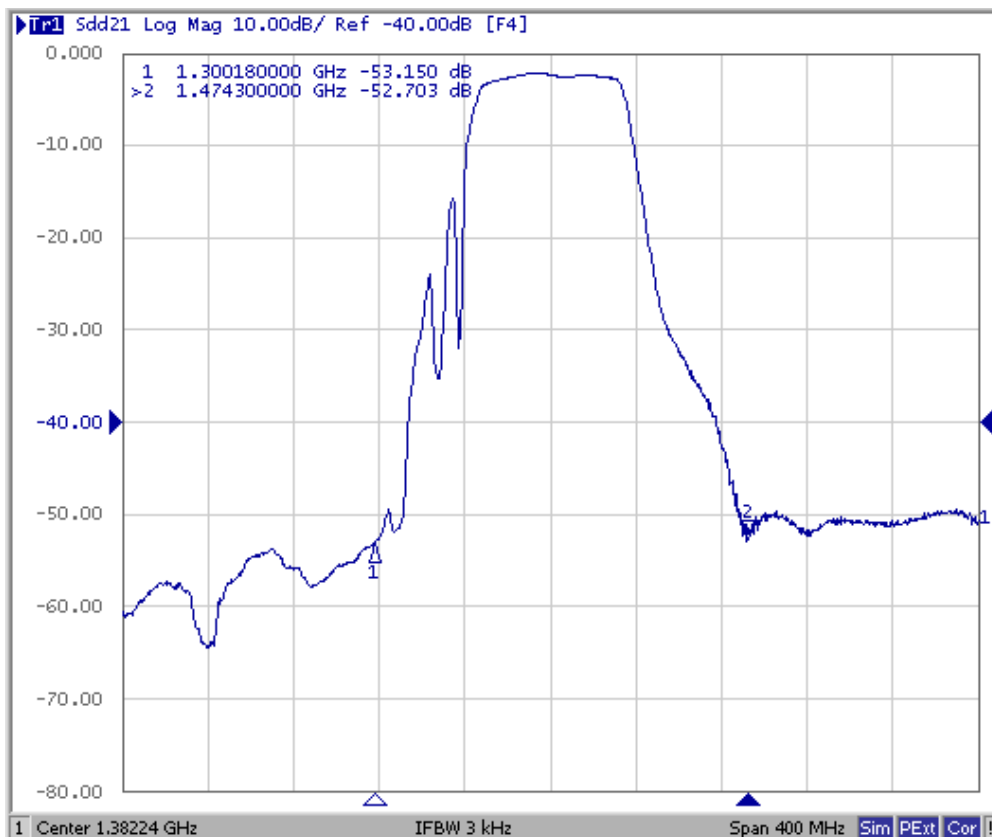
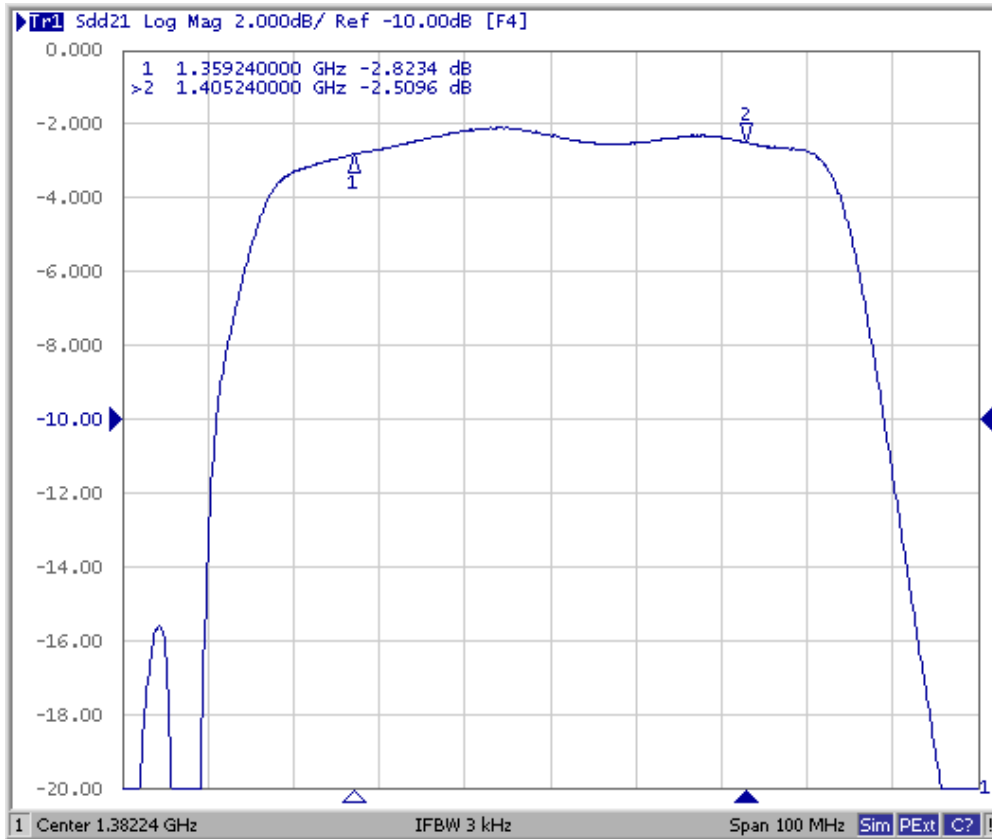
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:



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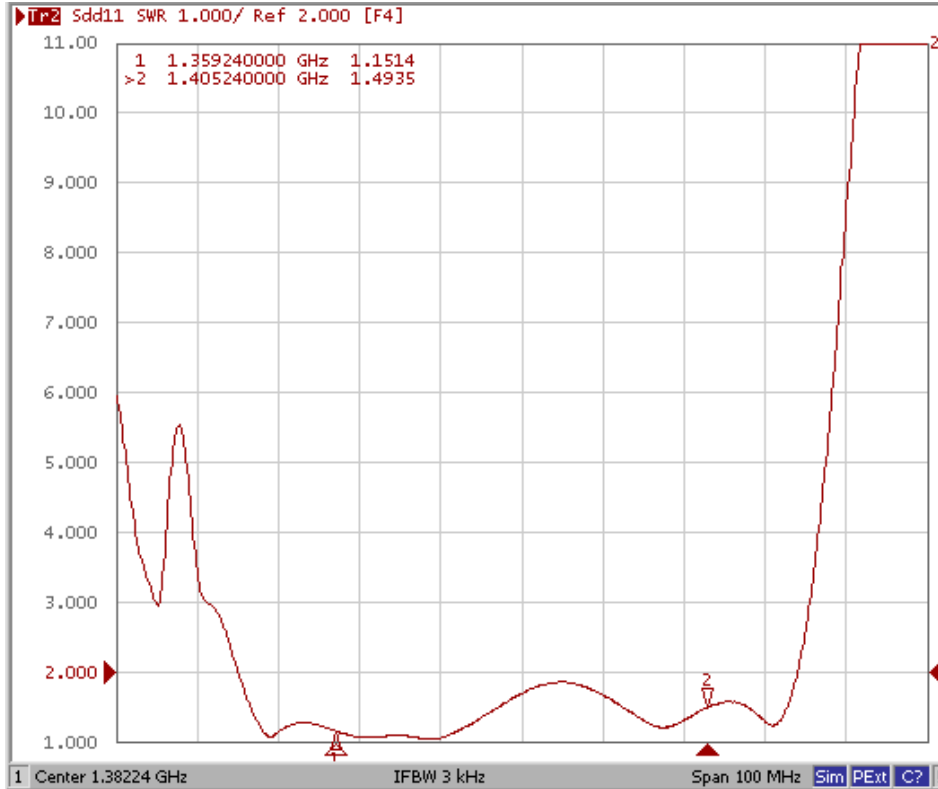


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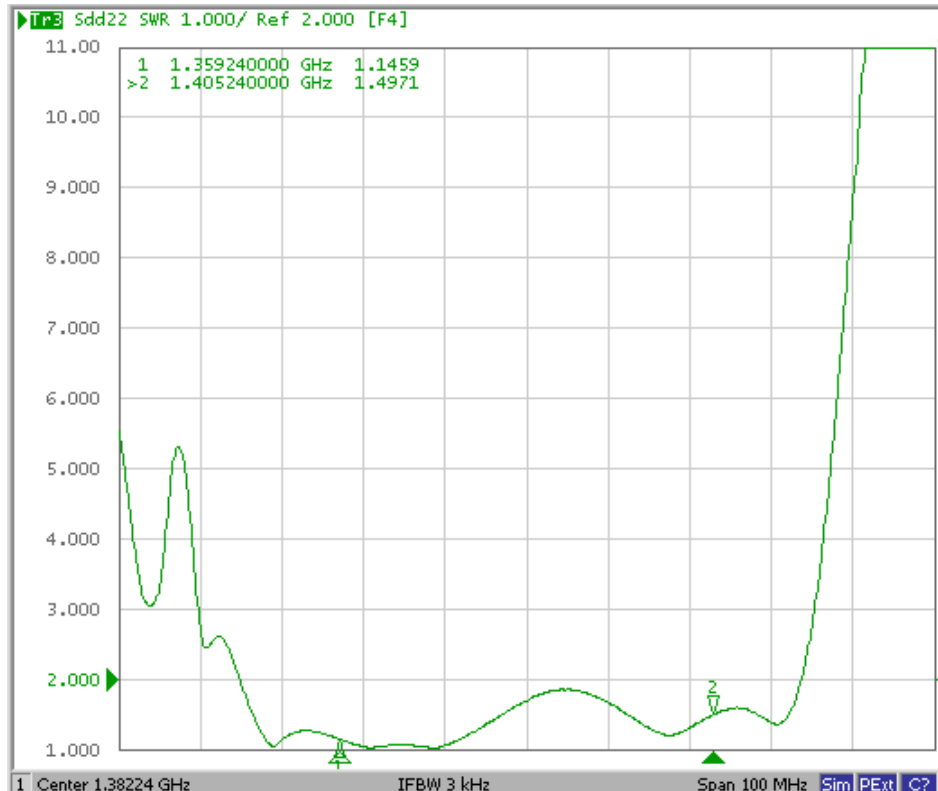
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Reflection Functions

S11



S22

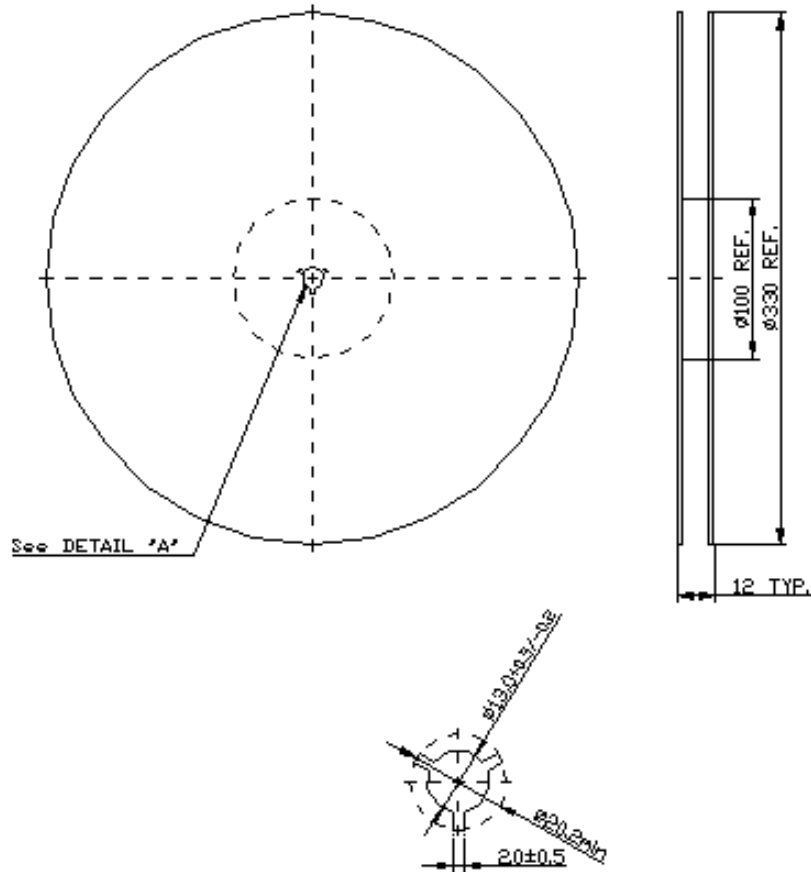


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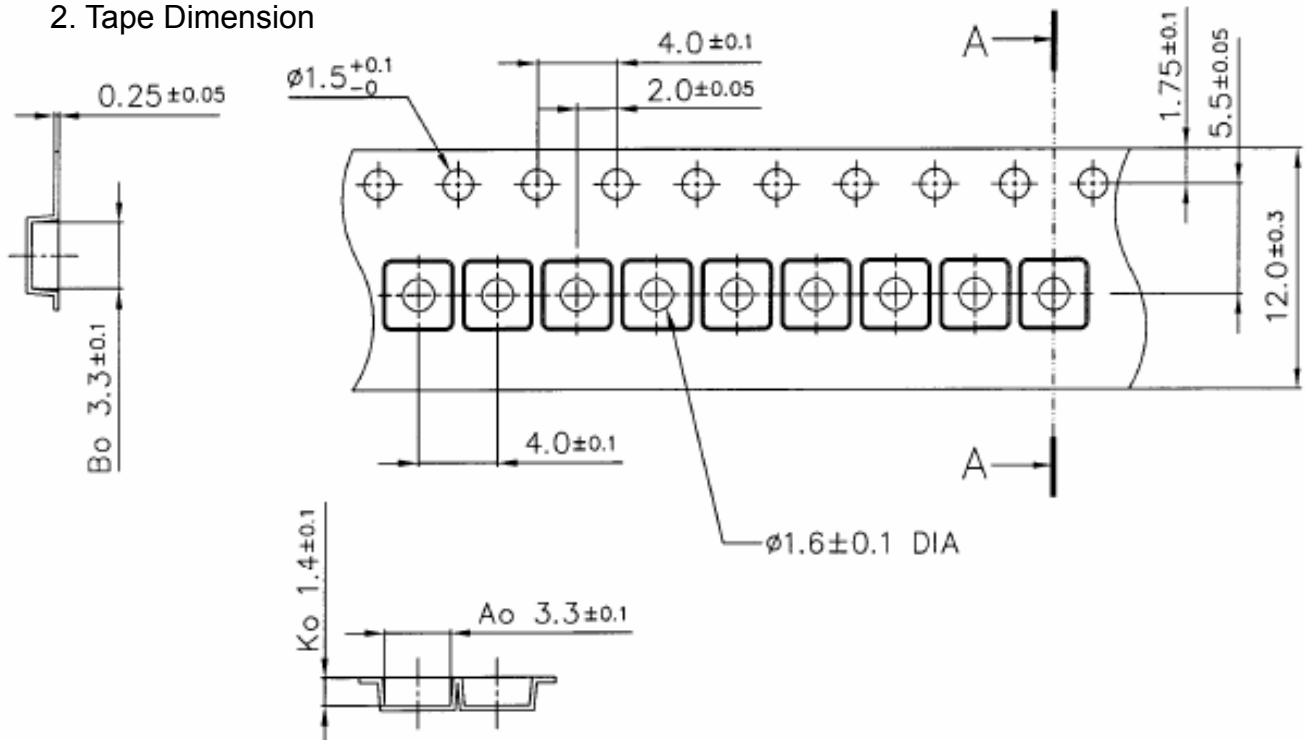
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G. PACKING:

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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

