

SAW Filter 246.0MHz
Part No: MP04680

Model: TA1472A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 10dBm
2. DC Voltage: 0V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	246	-
1dB BW	kHz	200	350	-
3dB BW	kHz	-	500	-
Minimum insertion loss IL (min)				
Exclude loss in matching elements *1)	dB	-	1.9	3.2
Incl. loss of matching elements *2)	dB	-	2.1	3.4
Passband (relative to IL min) *1)				
245.90 ~ 246.10MHz	dB	-	0.5	1.5
Attenuation (relative to IL min) *1)				
10.000 ~ 203.00MHz	dB	50	65	-
203.00 ~ 240.00MHz	dB	33	41	-
240.00 ~ 245.00MHz	dB	15	25	-
247.00 ~ 265.00MHz	dB	10	18	-
265.00 ~ 400.00MHz	dB	39	47	-
400.00 ~ 1000.0MHz	dB	50	57	-
Temperature Coefficient	ppm/oC2		-0.036	
Impedance at Fc Input *1) $Z_{IN} = R_{IN} // C_{IN} Z_S$	Ω		2195 Ω // 1.9pF	
Impedance at Fc Output *1) $Z_{OUT} = R_{OUT} // C_{OUT} Z_L$	Ω		2915 Ω // 1.68pF	

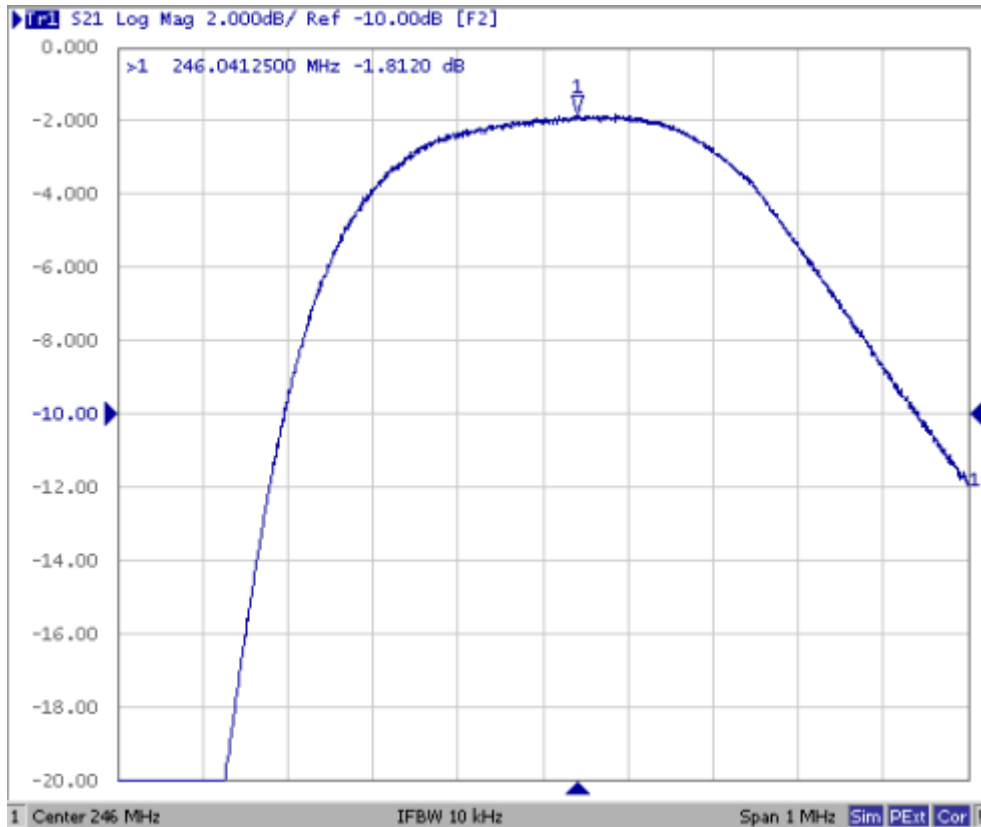
*1. The matching circuit is ideal by simulation.

*2. The matching circuit is real by actual passive components.
 0805 Coilcraft CS series chip conductor is used for inductor.
 0402 muRata GRM series is used for capacitor.

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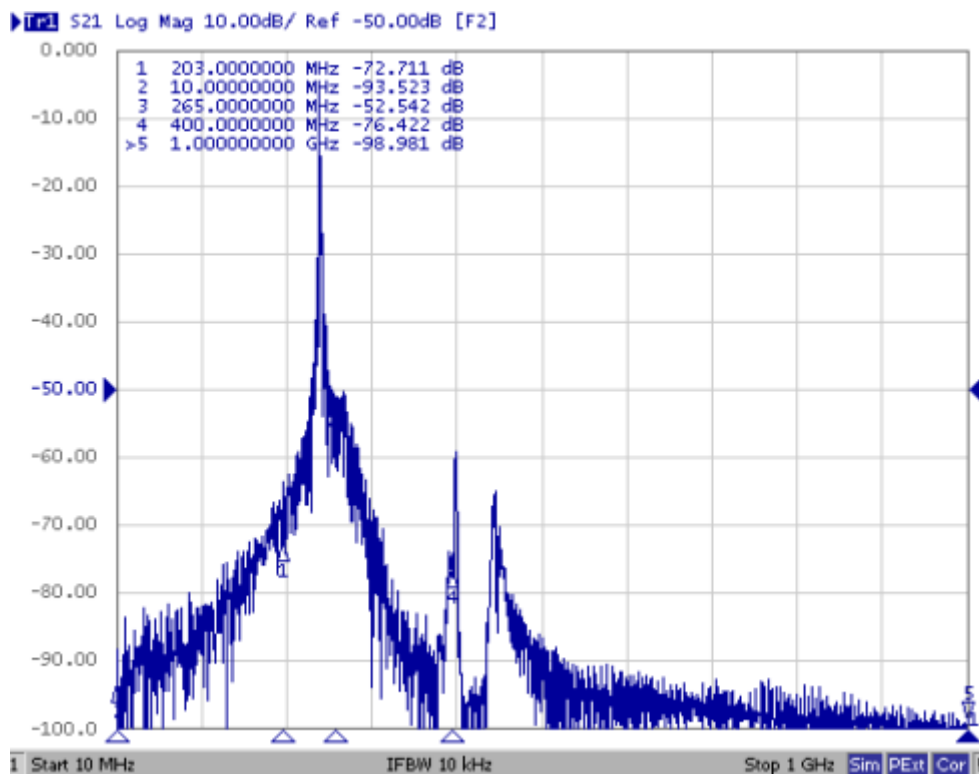
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C. FREQUENCY CHARACTERISTICS:



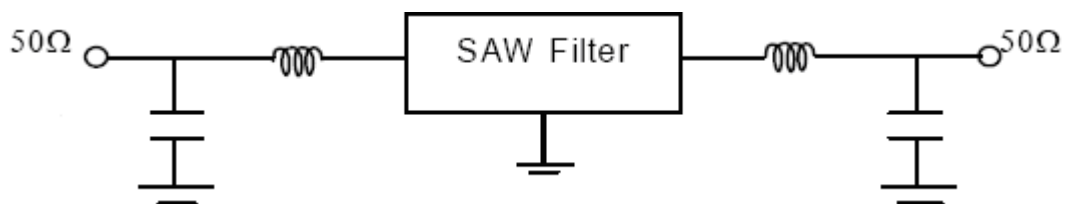
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D. MEASUREMENT CIRCUIT:

The matching circuit is ideal by simulation

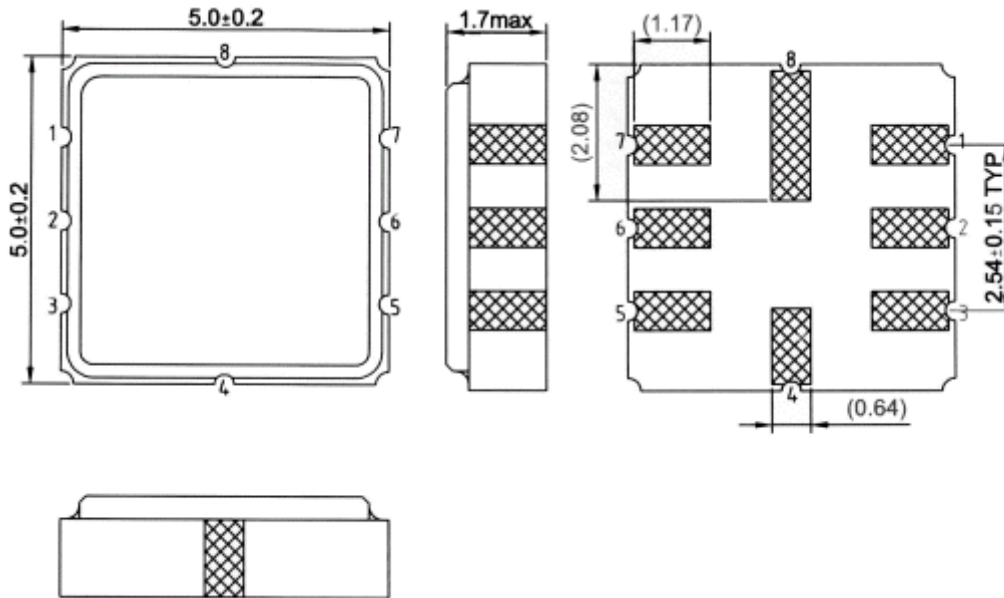


L1: 212nH, L2: 245nH (Ideal value)
C1: 0pF, C2: 0pF (Ideal value)

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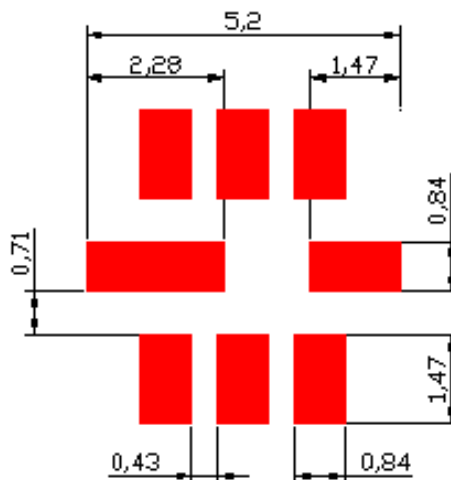
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E. OUTLINE DRAWING:



- 2: Input
- 6: Output
- 4, 8: Case Ground
- 1, 3, 5, 7: Ground

F. PCB FOOTPRINT:

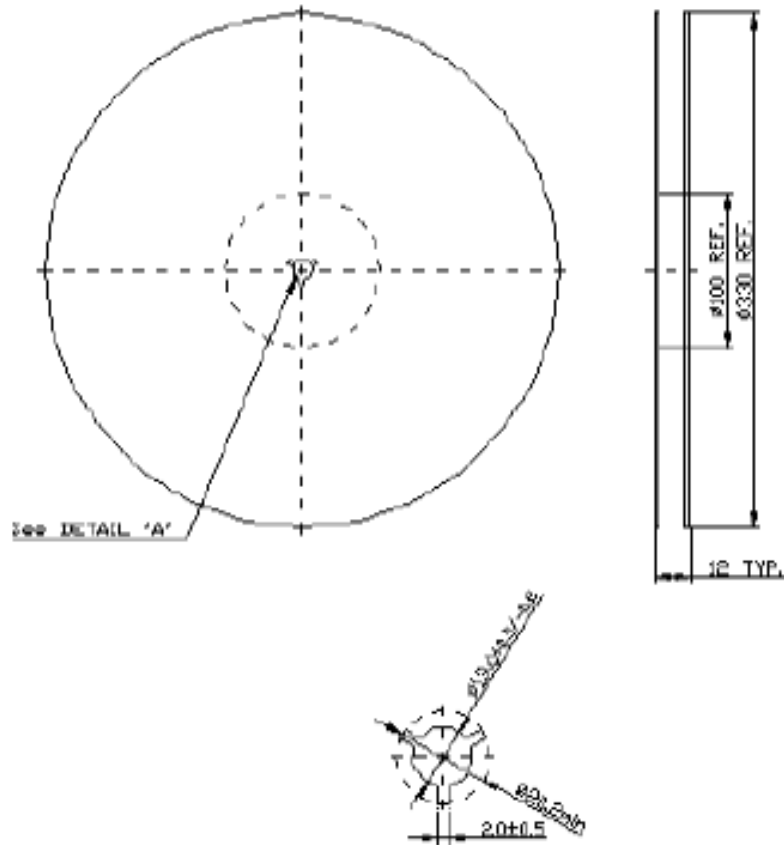


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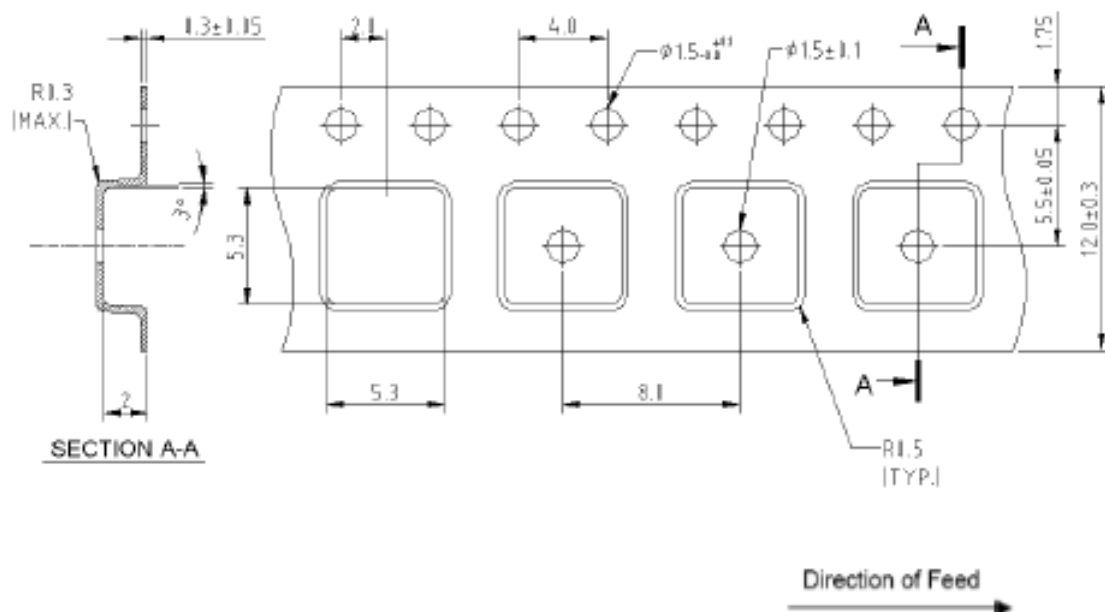
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

