

SAW Filter 836.50MHz

Model: TA1415A

Part No: MP06276

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 10dBm
2. DC Voltage: 12V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	836.5	-
Minimum insertion loss IL (min)				
Exclude loss in matching elements *1)	dB	-	2.6	3.8
Incl. loss of matching elements(Q=91) *2)	dB	-	3.0	4.2
Passband (relative to IL min)*1)				
835.50 ~ 837.50MHz	dB	-	1.0	3.0
3dB bandwidth	MHz	-	4.5	-
Attenuation (relative to IL min)*1)				
10.000 ~ 785.00MHz	dB	40	51	-
785.00 ~ 810.00MHz	dB	30	38	-
810.00 ~ 829.00MHz	dB	20	29	-
843.00 ~ 850.00MHz	dB	15	27	-
850.00 ~ 910.00MHz	dB	18	25	-
910.00 ~ 1000.0MHz	dB	40	48	-
Impedance at Fc, Input *1) $Z_{IN} = R_{IN} // C_{IN} Z_S$	Ω	651 Ω // 1.5pF		
Impedance at Fc, Output *1) $Z_{OUT} = R_{OUT} // C_{OUT} Z_L$	Ω	598 Ω // 1.5pF		

*1): The matching circuit is ideal by simulation.

*2): The matching circuit is real by actual passive components.

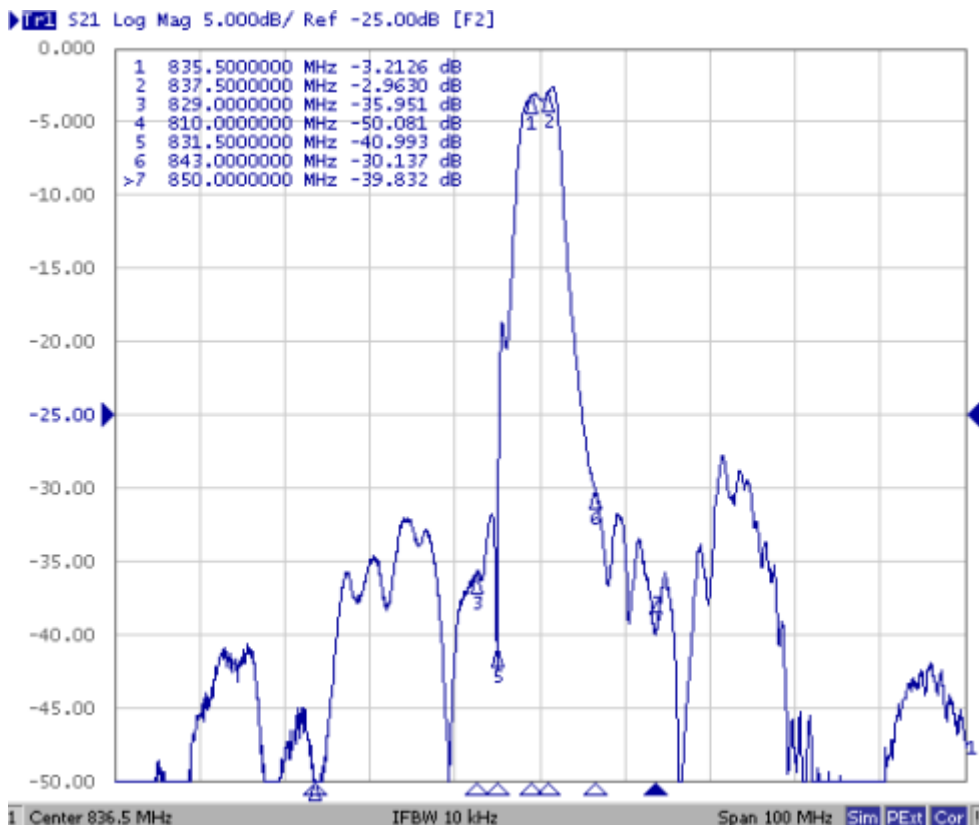
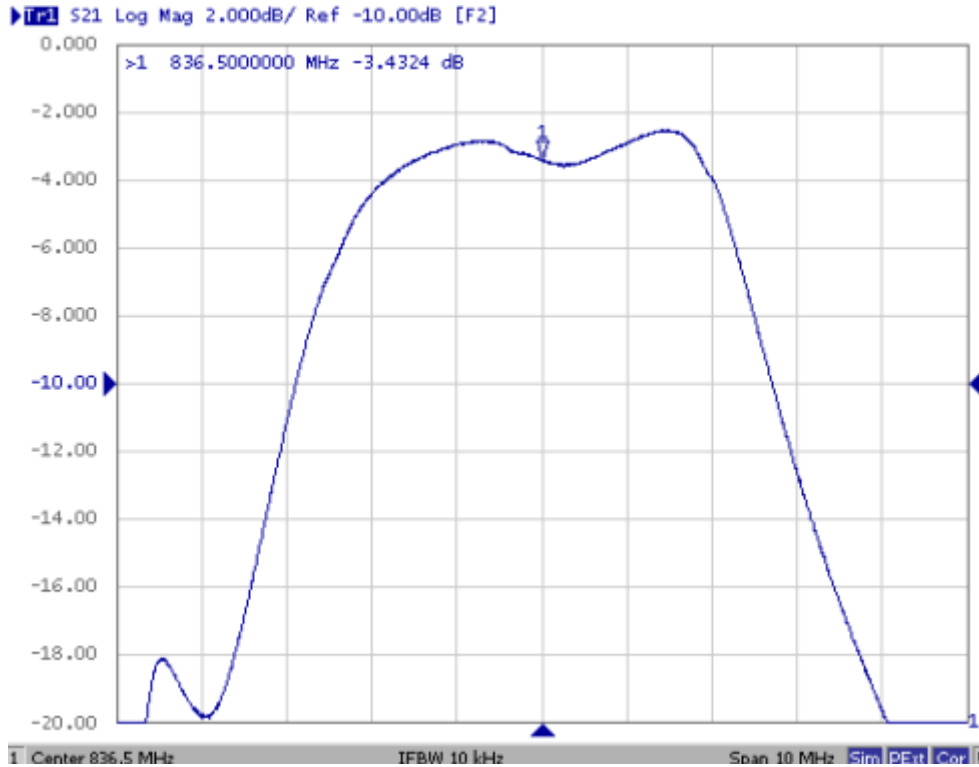
0805 Coilcraft CS series chip conductor is used for inductor.

0402 muRata GRM series is used for capacitor.

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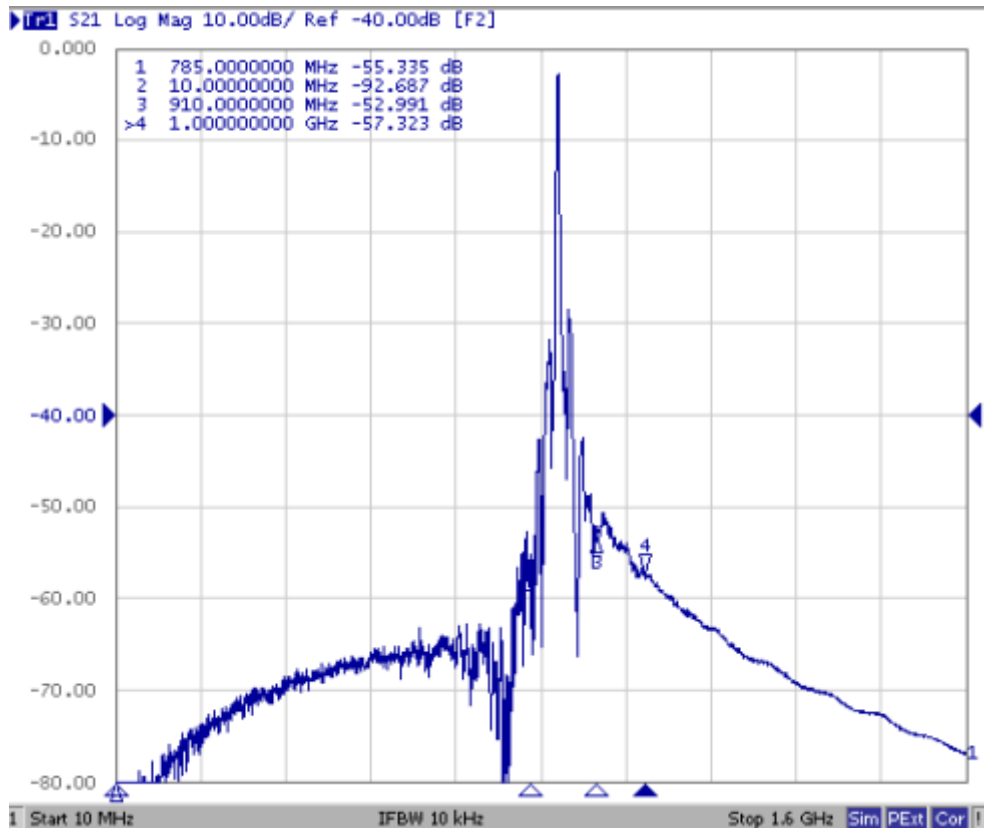
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C. FREQUENCY CHARACTERISTICS:



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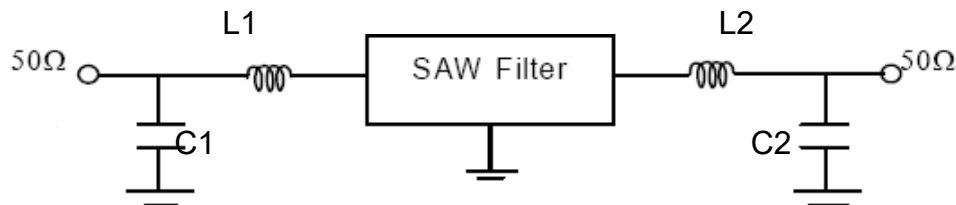


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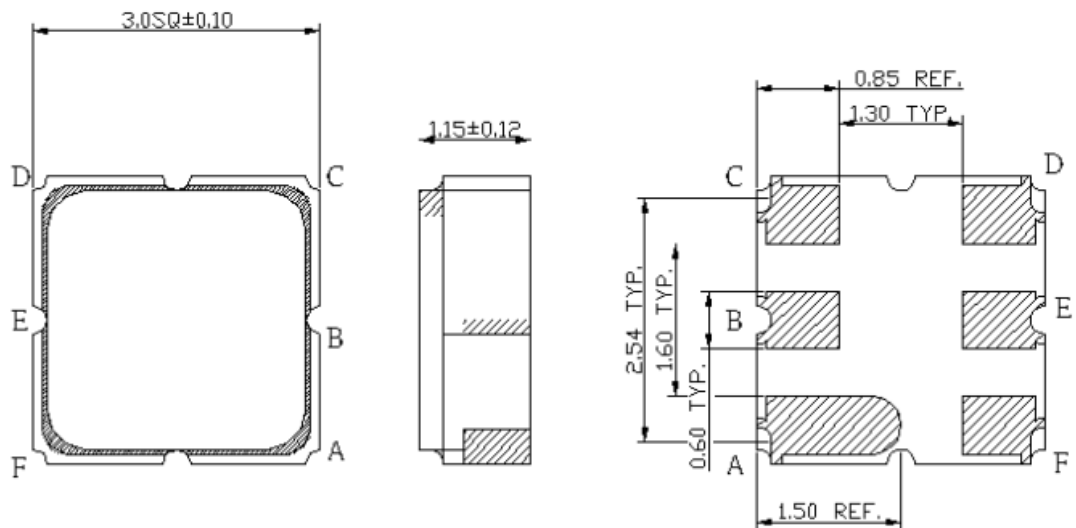
D. MEASUREMENT CIRCUIT:

The matching circuit is ideal by simulation



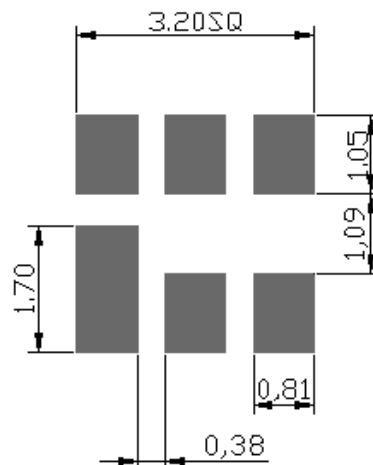
L1: 28nH, L2: 27nH (Ideal value)
 C1: 4pF, C2: 4pF (Ideal value)

E. OUTLINE DRAWING:



Pin B : Input or Output ; Pin E : Output or Input
 Pin A,C,D,F:Ground
 △ : Year Code
 □ : Date Code
 Unit : mm

F. PCB FOOTPRINT:

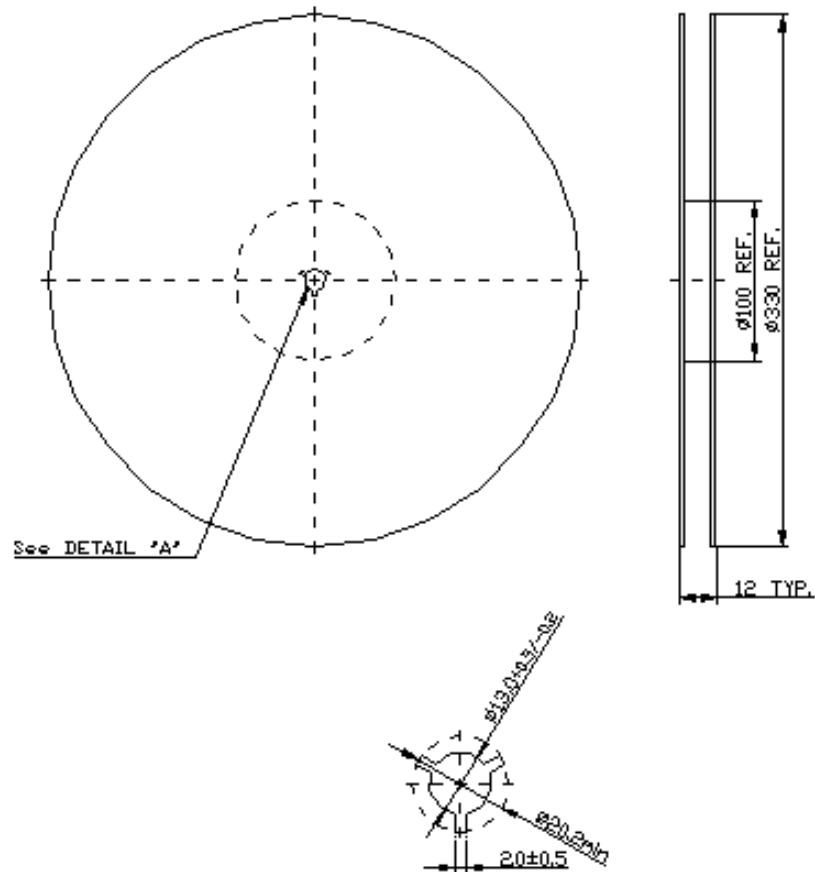


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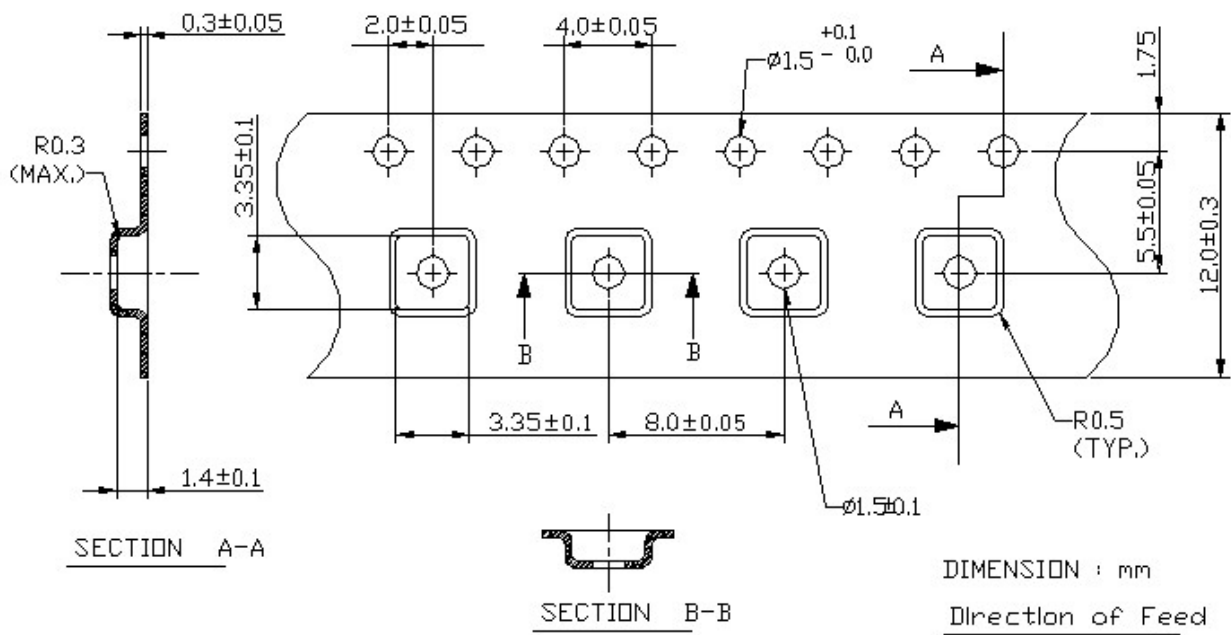
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G. PACKING:

1. Reel Dimensions



2. Tape Dimensions



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H. RECOMMENDED REFLOW PROFILE:

