

SAW Filter 325.0MHz
Part No: MP03559

Model: TB0457A
Rev No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -40°C ~ +85°C
2. Storage Temperature: -40°C ~ +85°C
3. Input Power Level: 10dBm

B. CHARACTERISTICS:

1. Ambient Temperature: 25°C
2. Optimal Source Impedance (Balanced): 200Ω
3. Optimal Load Impedance (Balanced): 200Ω

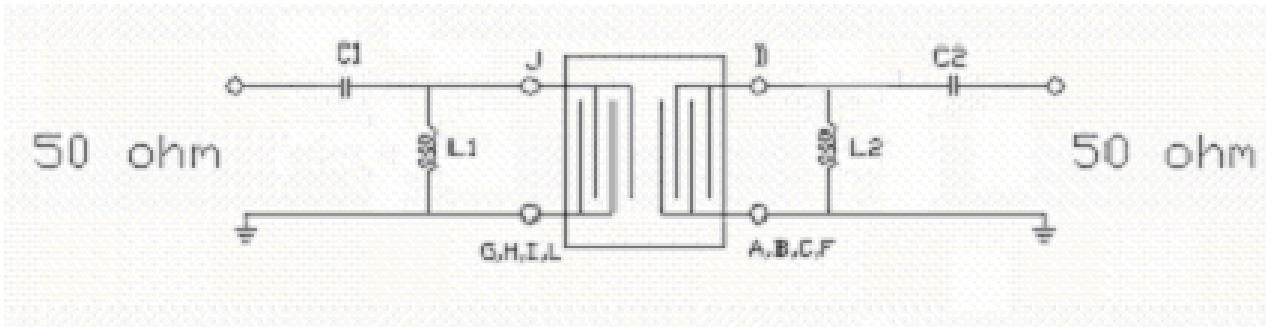
Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency FC MHz	-	325	-	-
Minimum Insertion Loss dB	-	18.6	20	-
1dB Bandwidth MHz	6.3	6.4	-	-
3dB Bandwidth MHz	-	6.7	6.9	-
Passband Ripple (Fc ± 3MHz) dB	-	0.9	1.5	-
Amplitude Ripple at any 26.875kHz adjacent segment within 6MHz dB	-0.1	±0.07	0.1	-
Amplitude Ripple at any 24.6875kHz adjacent segment within 6MHz dB	-0.1	±0.06	0.1	
Phase Linearity at any 26.875kHz adjacent segment within 6MHz Deg.	-1.5	±1.0	1.5	
Phase Linearity at any 24.6875kHz adjacent segment within 6MHz Deg.	-1.5	±1.0	1.5	
Attenuation: (Reference level from minimum insertion loss) dB				
Fc ± 3.5MHz dB	-	2.5	-	-
Fc ± 4MHz dB	10	13.5	-	-
Fc ± 5MHz dB	33	42	-	-
288MHz ~ 320MHz dB	34	39	-	-
330MHz ~ 362MHz dB	36	40	-	-
Temp Coefficient ppm/°C ²	-0.036			

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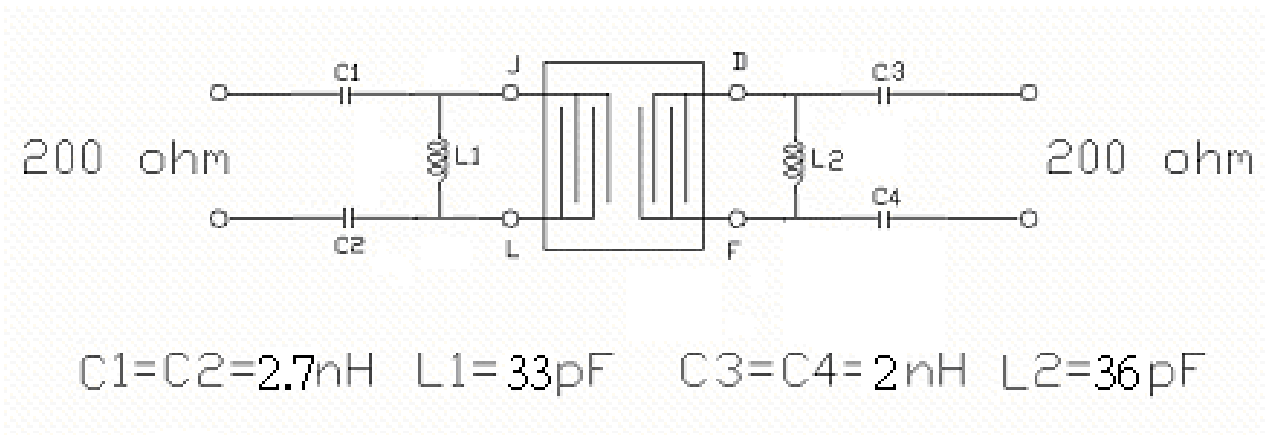
C. MEASUREMENT CIRCUIT:

1. Single end 50Ω to Single end 50Ω

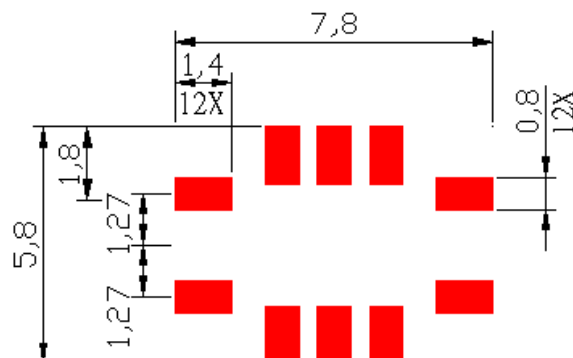


$L1 = 27\text{nH}$ $C1 = 2\text{pF}$ $L2 = 28\text{nH}$ $C2 = 1.8\text{pF}$

2. Balanced 200Ω to Balanced 200Ω



D. PCB FOOTPRINT:



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E. FREQUENCY CHARACTERISTICS:

1. S21 Response

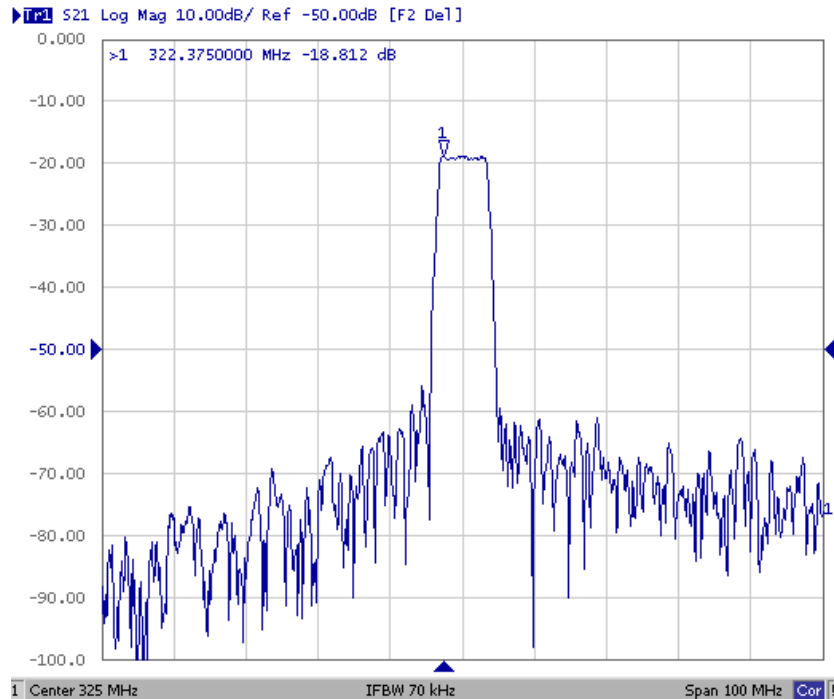


Fig. 1. Horizontal: 10MHz/Div, Vertical: 10dB/Div

2. Passband Ripple & Group Delay ripple

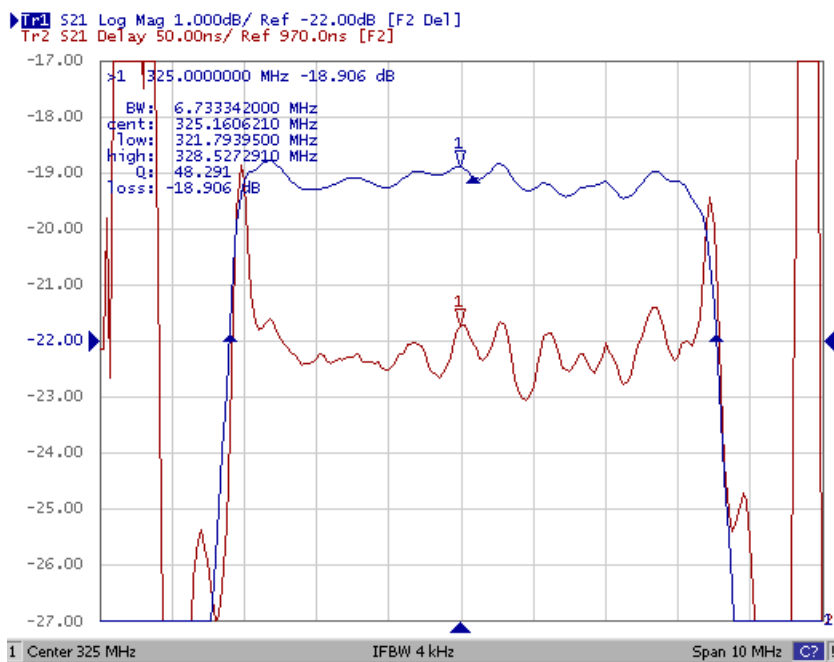
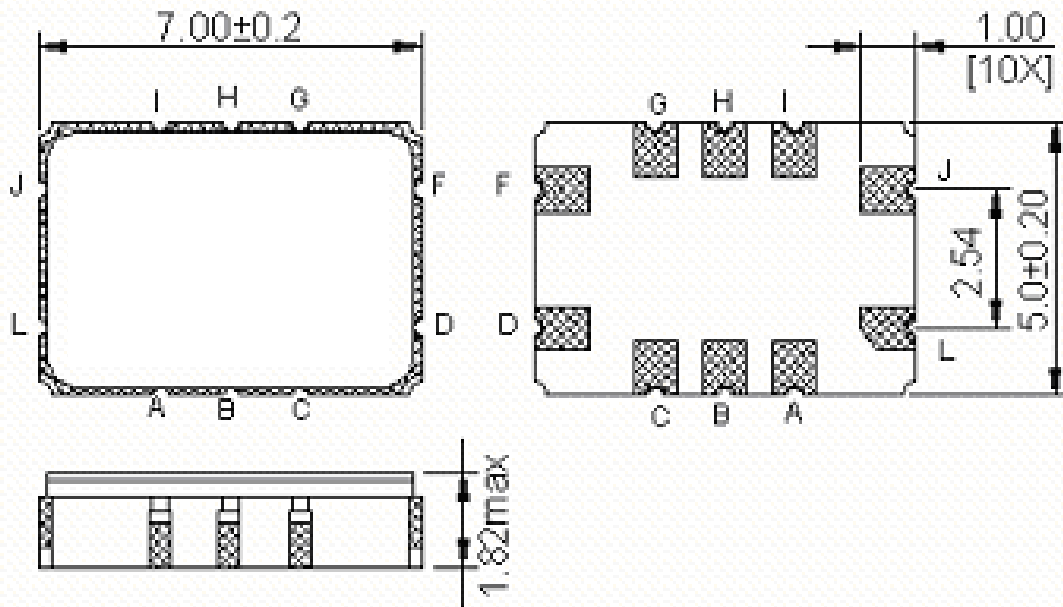


Fig. 2. Horizontal: 1MHz/Div, Vertical: 1dB/Div, 1MHz/Div Vertical: 50nS/Div

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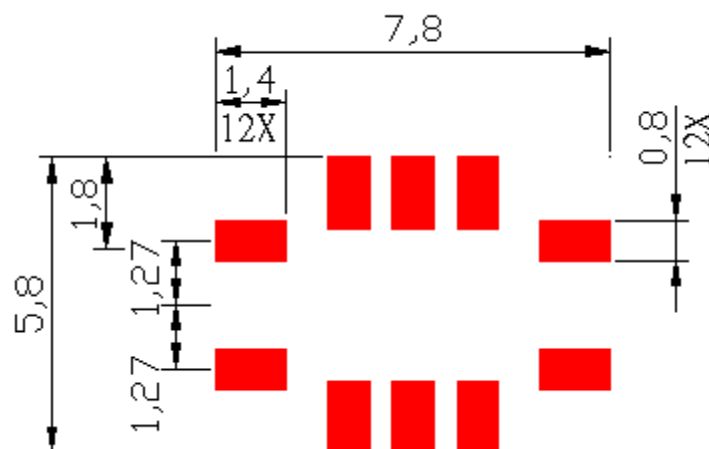
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F. OUTLINE DRAWING:



J, L: Balanced Input
 F, D: Balanced Output
 A, B, C, I, H, G: To be Ground
 Unit: mm

G. FOOTPRINT:

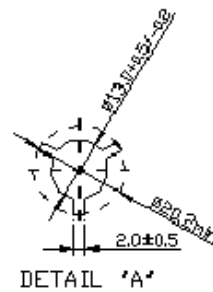
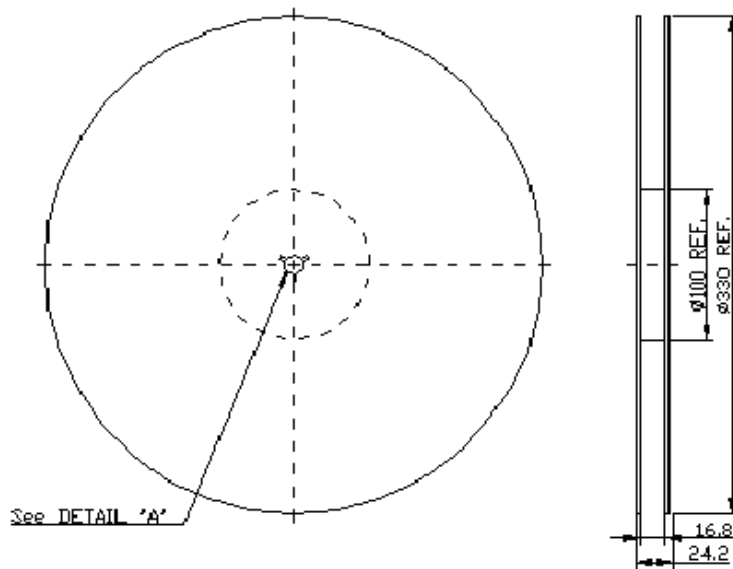


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H. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

