

**SAW Filter 325MHz**  
**Part No: MP03302**

**Model: TB0398A**  
**Rev No: 2**

**A. MAXIMUM RATING:**

1. Operating Temperature: -10°C to 60°C
2. Storage Temperature: -40°C to 85°C

**B. CHARACTERISTICS:**

Ambient Temperature: 23°C

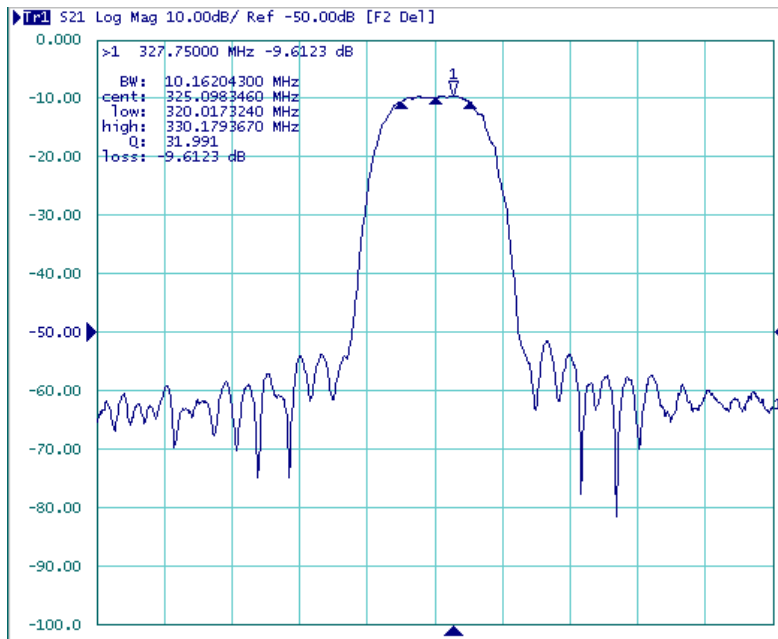
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	325	-
Insertion Loss IL	dB	-	9.6	14
Lower 3dB Bandedge	MHz	-	318.3	320.0
Upper 3dB Bandedge		330.0	331.3	-
Lower 40dB Bandedge	MHz	307.5	312.8	-
Upper 40dB Bandedge		-	337.4	342.5
Amplitude Ripple (321 ~ 329MHz)	dB	-	0.4	1
Phase Linearity (320 ~ 330MHz)	deg	-	5	-
Group Delay Ripple (320 ~ 330MHz)	nsec	-	24	75
Relative Attenuation			-	
10 - 220MHz	dB	45	50	
220 - 300MHz	dB	40	46	
350 - 355MHz	dB	40	48	
355 - 375MHz	dB	35	48	
375 - 380MHz	dB	40	51	
380 - 405MHz	dB	35	49	
405 - 500MHz	dB	40	48	
Source Impedance	Ω	-	50	-
Load Impedance	Ω	-	50	-
Temperature Coefficient	ppm/°C		-75	
Substrate Material	-	-	128 LiNbO3	-

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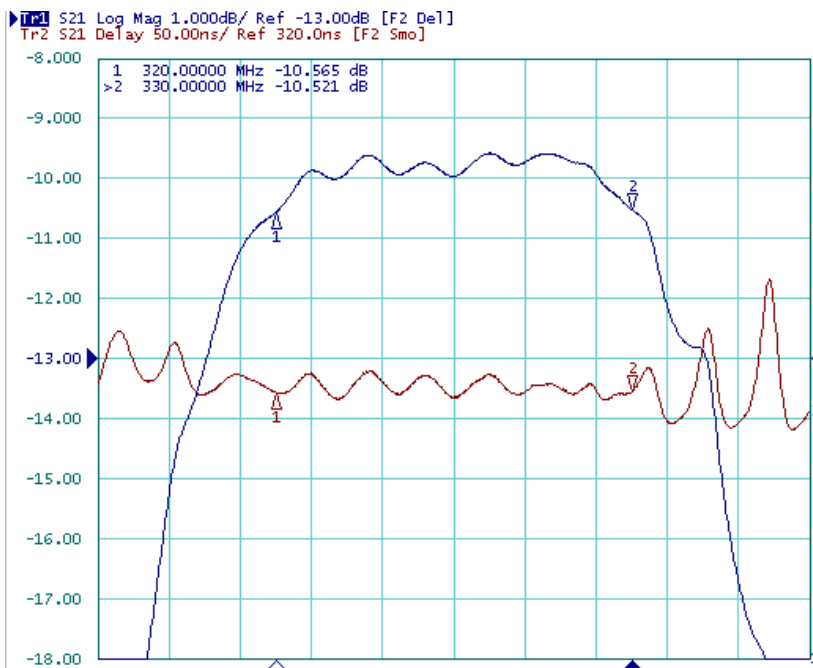
**C. FREQUENCY CHARACTERISTICS:**

1. S21 Response: (span 100MHz)



Horizontal: 100MHz/Div, Vertical: 10dB/Div

2. Pass band Response: (span 20MHz)

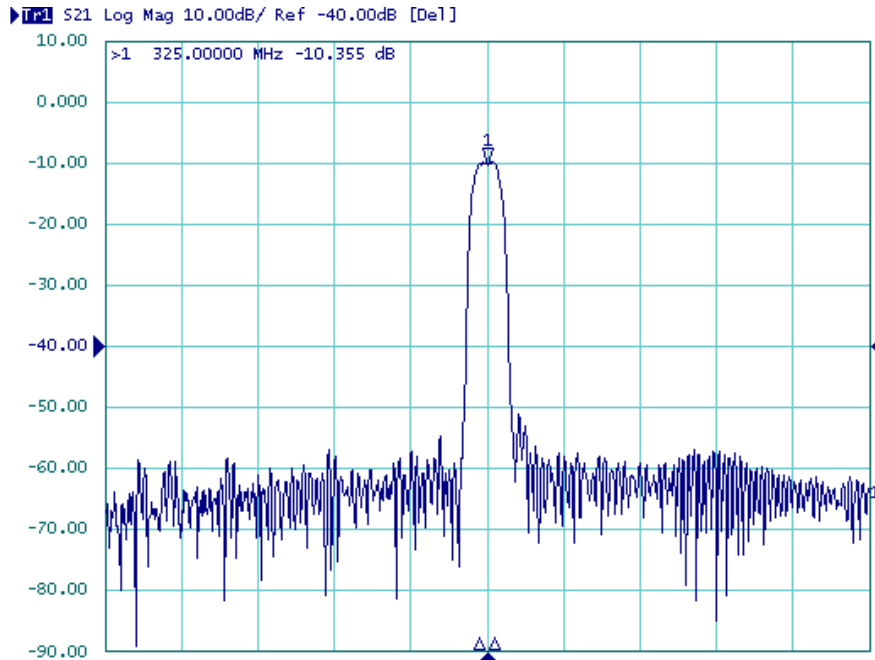


Horizontal: 0.3MHz/Div, Vertical 1: 1dB/Div, Vertical 2: 100nS/Div

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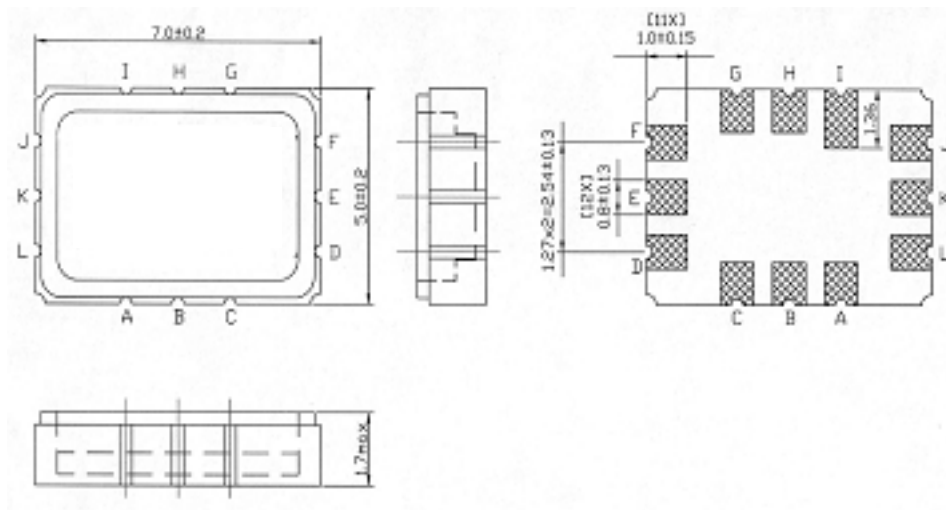
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3. Wide band Response: (span 400 MHz)



Horizontal: 40MHz/Div, Vertical: 10dB/Div

**D. OUTLINE DRAWING:**

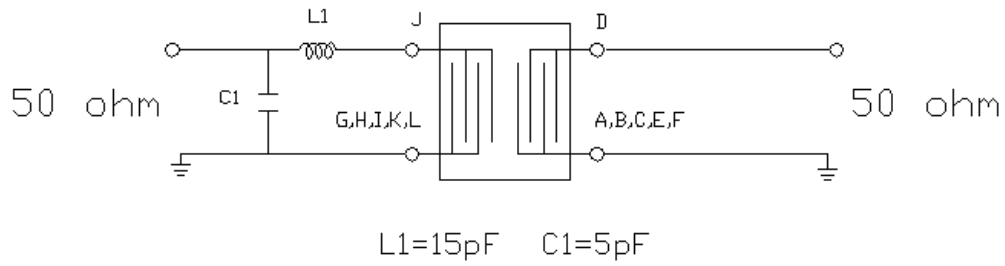


- D: Balanced Input
  - C: Balanced Input
  - J: Balanced Output
  - I: Balanced Output
  - A, B, E, F, G, H, K, L: To be Ground
- Unit: mm

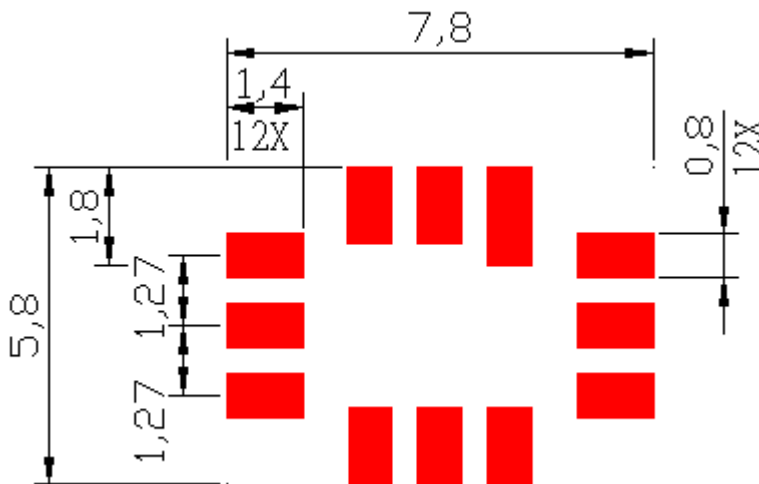
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**E. TEST FIXTURE:**



**F. PCB FOOTPRINT:**

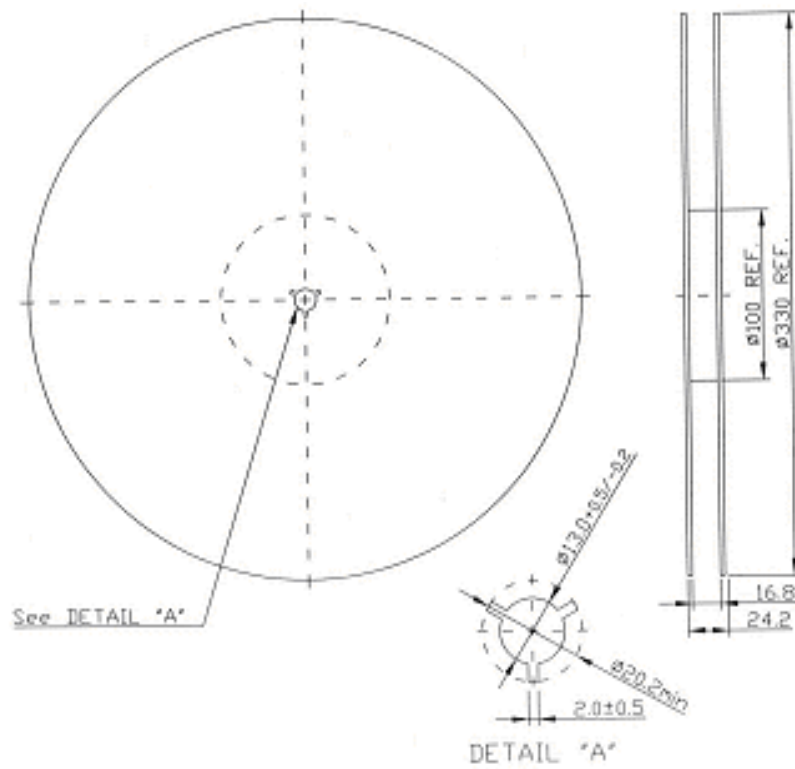


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**G. PACKING:**

**1. REEL DIMENSION**



**2. TAPE DIMENSION**

