

IF SAW Filter 374MHz
Part No: MA09959

Model: TB0501A
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:

Ambient Temperature: 25°C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency Fc MHz	-	374	-	-
Maximum Insertion loss IL dB	-	10.0	11.5	-
1dB Bandwidth MHz	10.5	11.7	-	
3dB Bandwidth MHz	-	13.8	-	
35dB Bandwidth MHz	-	19.9	-	
Passband Ripple in Fc ± 5.25MHz dB	-	0.5	1	-
Group Delay Ripple in Fc ± 5.25MHz nS	-	35	100	-
Temp Coefficient ppm/°C		-25		
Attenuation: (Reference level from minimum insertion loss)				
1. 279 ~ 346MHz dB	40	51	-	-
2. 346 ~ 357MHz dB	40	50	-	-
3. 357 ~ 361MHz dB	35	46	-	-
5. 387 ~ 391MHz dB	25	42	-	-
6. 391 ~ 425MHz dB	30	47	-	-
7. 425 ~ 469MHz dB	40	52	-	-

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C. FREQUENCY CHARACTERISTICS:

1. S21 Response

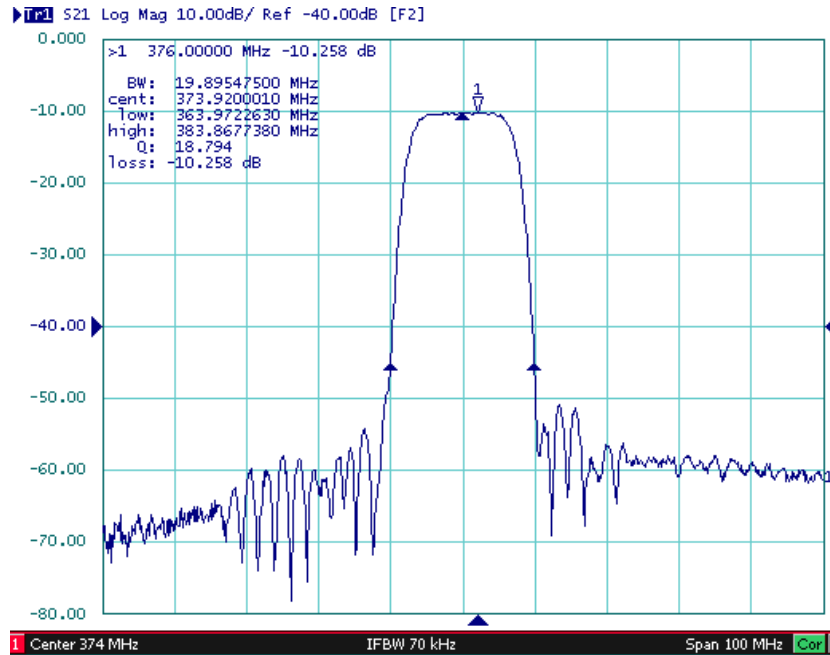


Fig. 1 Horizontal: 10MHz; Vertical: 10dB/Div

2. Passband Response

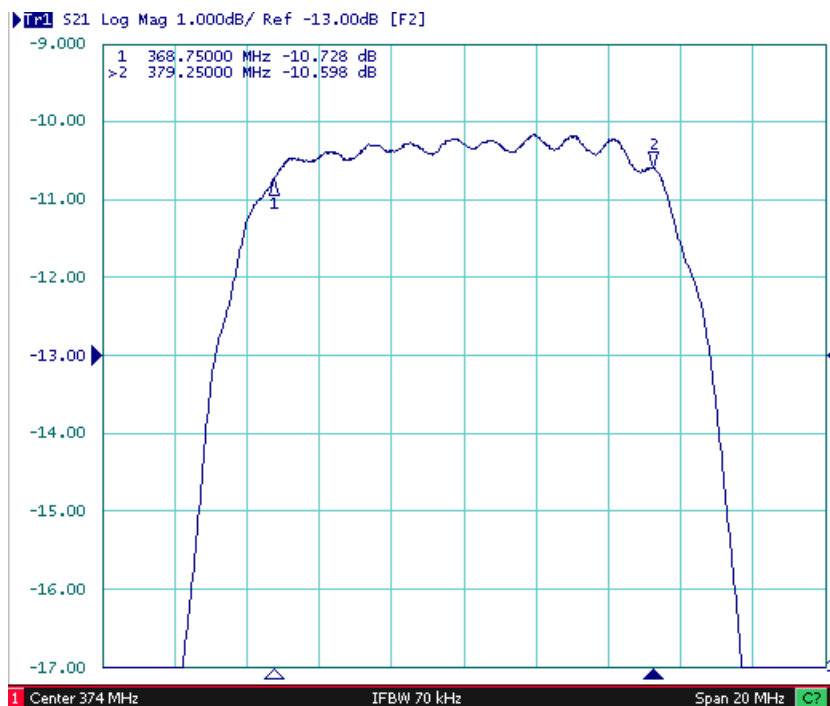


Fig. 2 Passband Horizontal: 2MHz; Vertical: 1dB/Div

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3. Group Delay

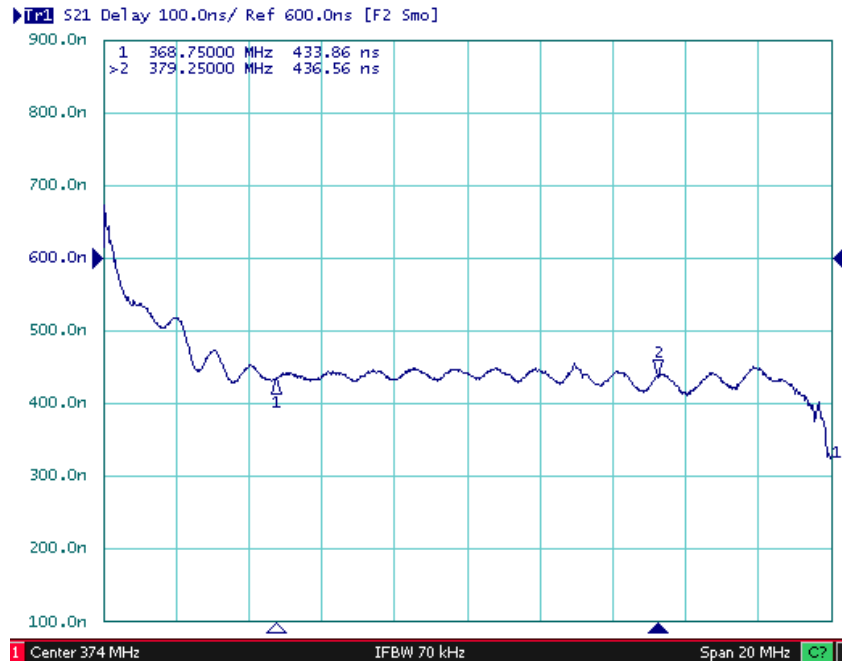


Fig. 3 Passband Horizontal: 2MHz; Vertical: 1dB/Div

4. Wide band

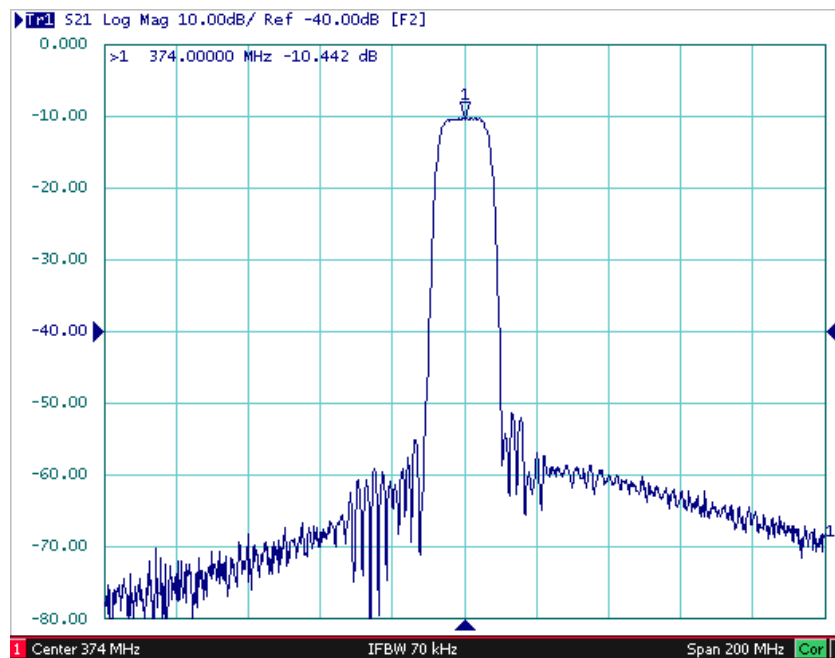
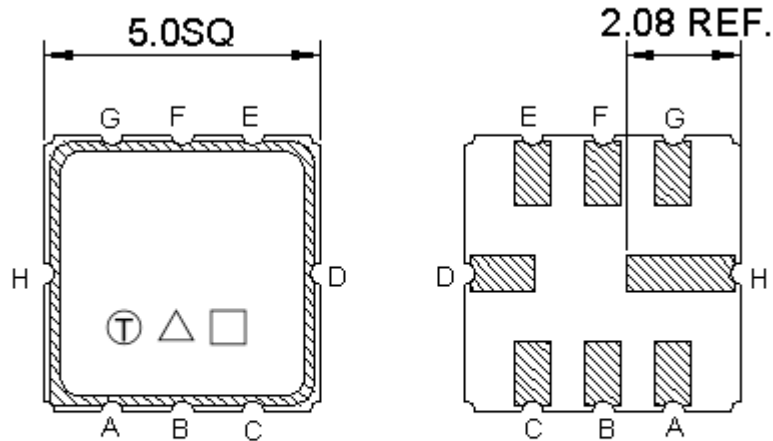


Fig. 4 Passband Horizontal: 20MHz; Vertical: 10dB/Div

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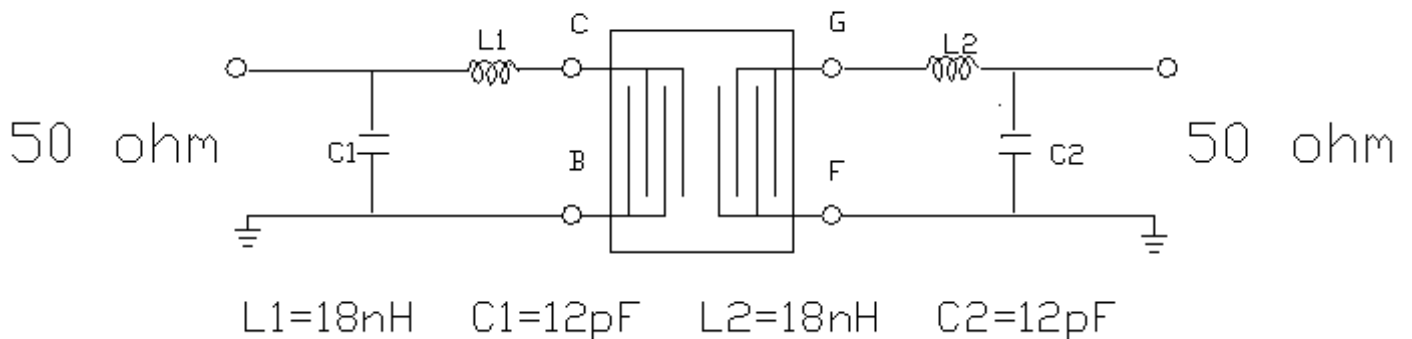
D. OUTLINE DRAWING:



- C: RF Input
- B: RF Input ground
- G: RF Output
- F: RF Output ground
- A, D, E, H: To be ground

E. MEASUREMENT CIRCUIT:

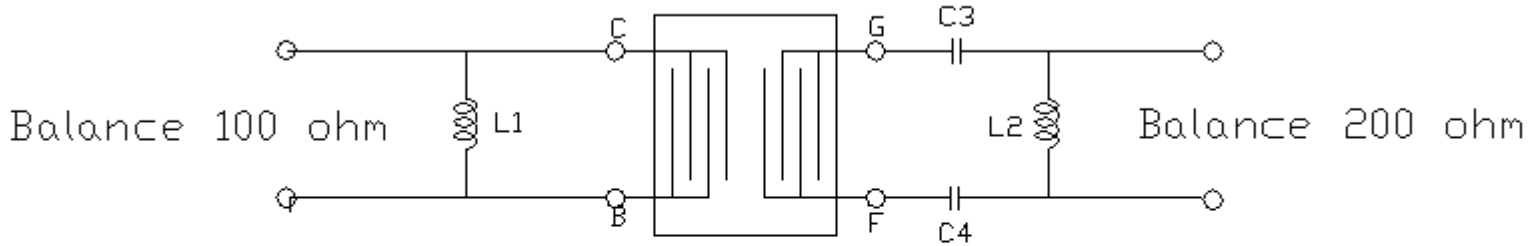
1. Single end input 50Ω to Single end output 50Ω



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2. Balanced input 100Ω to Balanced output 200Ω

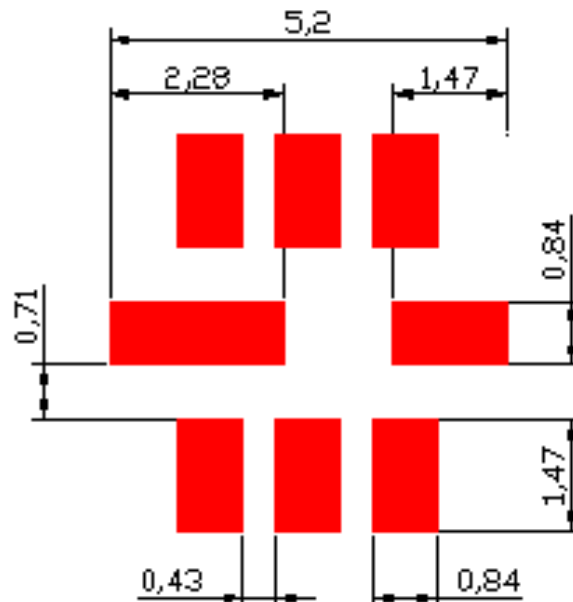


$$L1=18nH$$

$$C3=C4=82pF$$

$$L2=18nH$$

F. PCB FOOTPRINT:

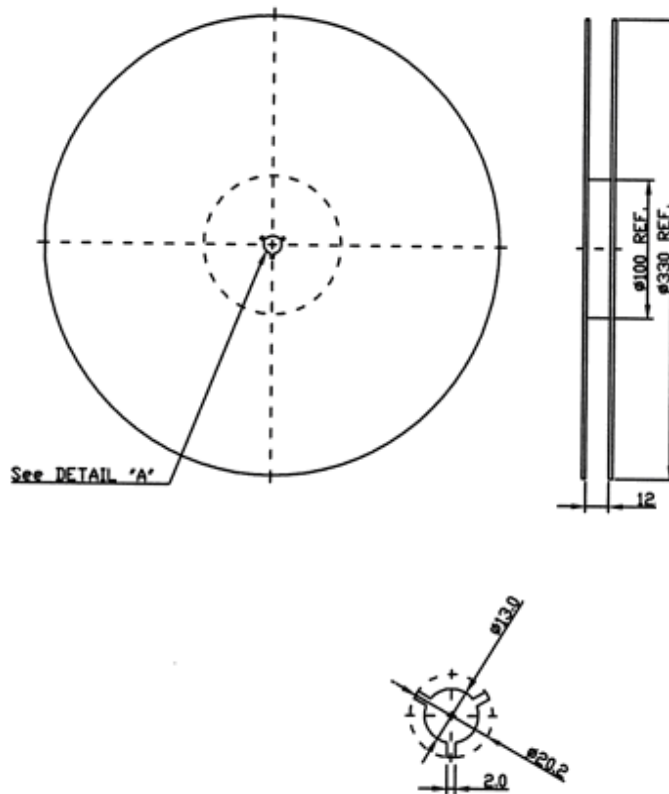


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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

