

240.0MHz SAW Filter

Model: TB0270A

Part No: MA07934

REV NO.: 1

A. MAXIMUM RATING:

1. Operating Temperature: -40 °C ~ 80 °C
2. Storage Temperature: -40 °C ~ +85 °C

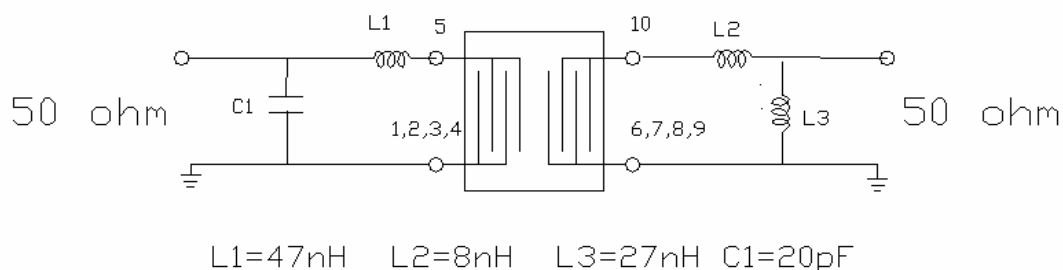
B. CHARACTERISTICS:

1. Ambient Temperature: 25 °C

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_C MHz	-	240	-	-
Minimum Insertion loss I.L. dB	-	7.7	8.5	-
Passband ripple ($F_C \pm 7\text{MHz}$) dB	-	0.8	1.4	-
Phase linearity ($F_C \pm 6.3\text{MHz}$)(p-p) deg	-	6	15	-
Return loss at Input and Output ($F_C \pm 6.3\text{MHz}$) dB	9.5	12	1	-
Group Delay ($F_C \pm 7\text{MHz}$) μ S	-	0.6	1	-
Group Delay Ripple ($F_C \pm 7\text{MHz}$) nS	-	33	100	1
Triple transit suppression TTS dB	-	45	40	-
Attenuation:(Reference level from minimum insertion loss)				dB
1) any 3.5MHz interval within $F_C \pm 7\text{MHz}$ dB	-	0.5	1	-
2) 150 MHz ~ 210 MHz dB	40	48	-	-
3) 210 MHz ~ 218 MHz dB	40	47	-	-
4) 218 MHz ~ 224 MHz dB	38	42	-	-
5) 218 MHz dB	40	49	-	-
6) 256 MHz ~ 258 MHz dB	35	39	-	-
7) 258 MHz ~ 262 MHz dB	35	39	-	-
8) 262 MHz ~ 330 MHz dB	35	40	-	-

Note 1 : measurement with smoothing; smoothing aperture $\leq 50\text{kHz}$

C. MEASUREMENT CIRCUIT:



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D. FREQUENCY CHARACTERISTICS:

1. S21 Response

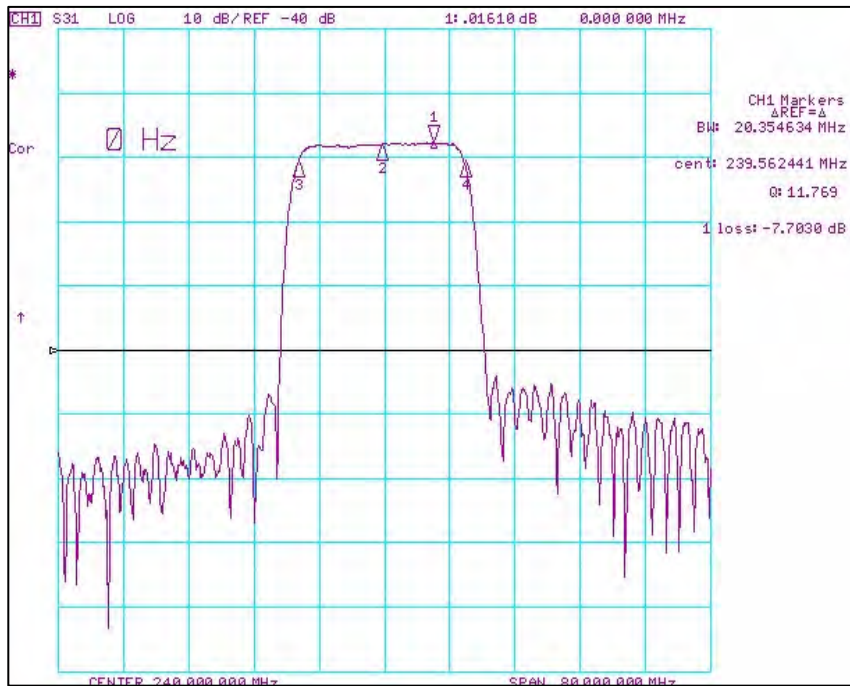


Fig1. Horizontal: 8MHz/Div Vertical: 10dB/Div

2. S21 Response (Group delay ripple of Passband)

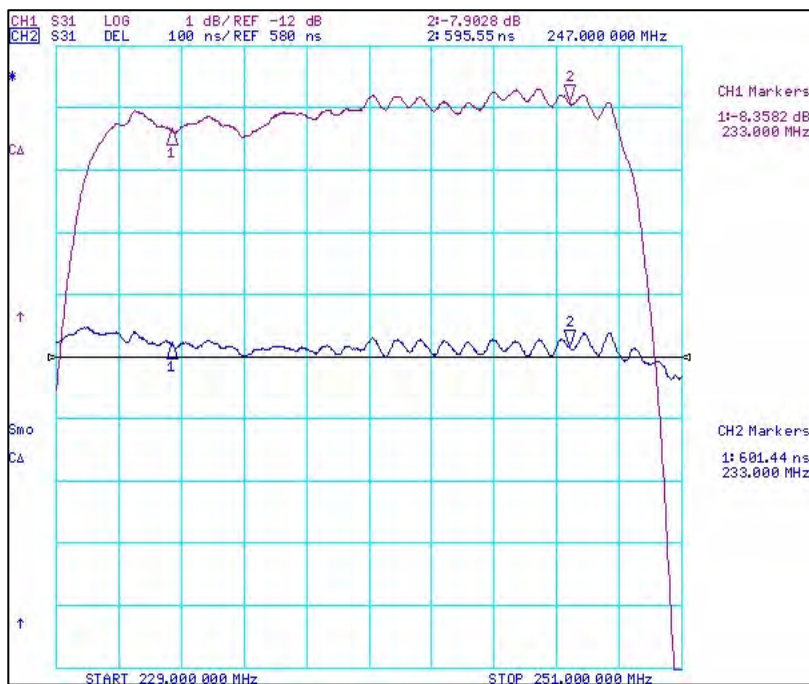


Fig2. Horizontal: 2.2MHz/Div; Vertical: 1dB/Div, Vertical: 100ns/Div

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3. S21 Response (Phase linearity)

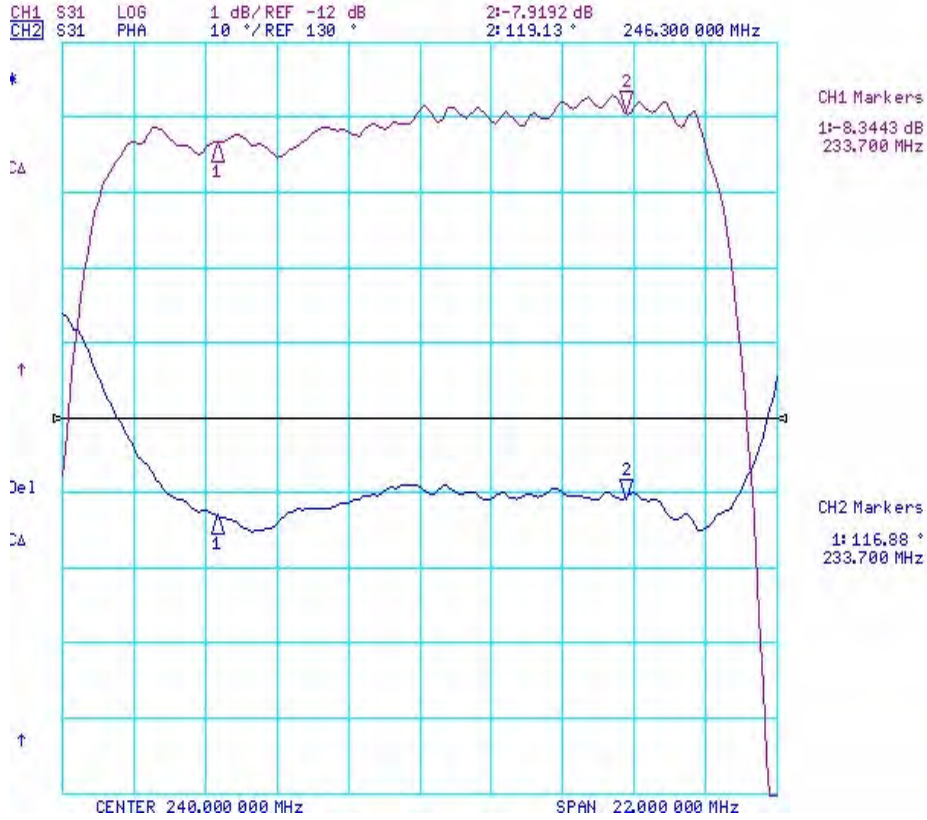
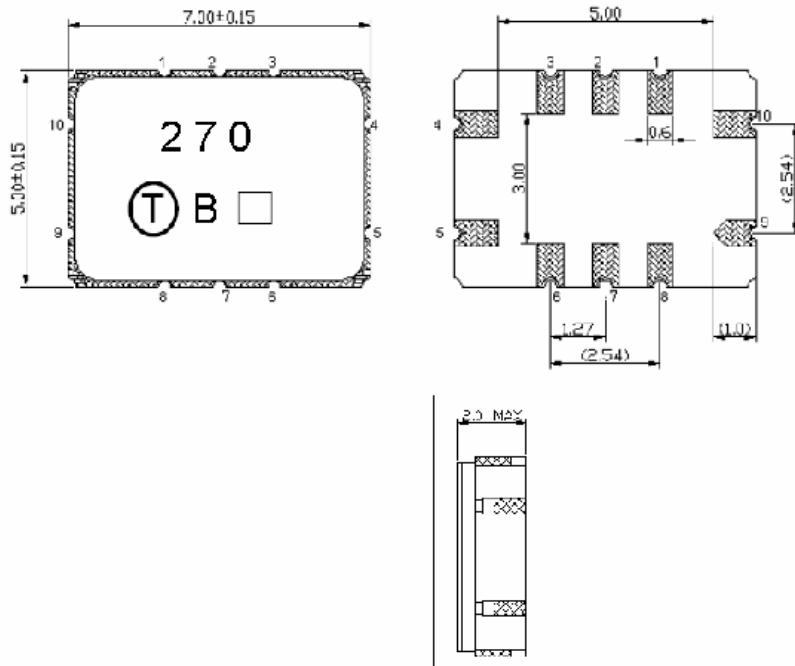


Fig3. Horizontal: 2.2MHz/Div; Vertical: 1dB/Div, 10deg/Div

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E. OUTLINE DRAWING:



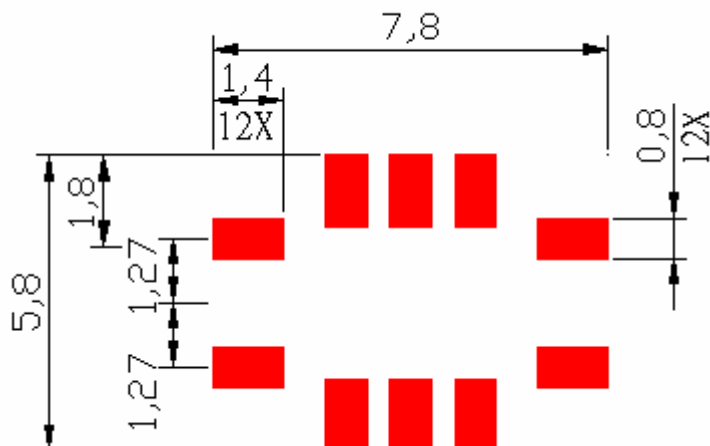
Pin 5: RF Input

Pin 10: RF Output

Pin 1,2,3,4,6,7,8,9 : To be Ground

Unit: mm

F. PCB FOOTPRINT:

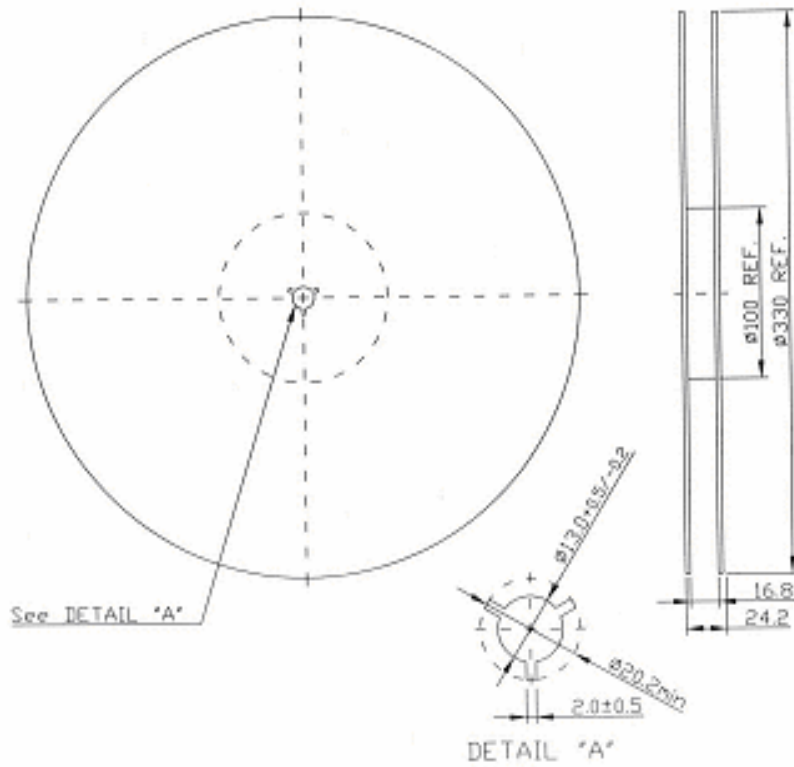


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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

