

50.0MHz SAW Filter

Model: TB0282A

Part No: MA09100

REV NO.: 1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -40°C to 65°C
3. Storage Temperature: -40°C to 85°C

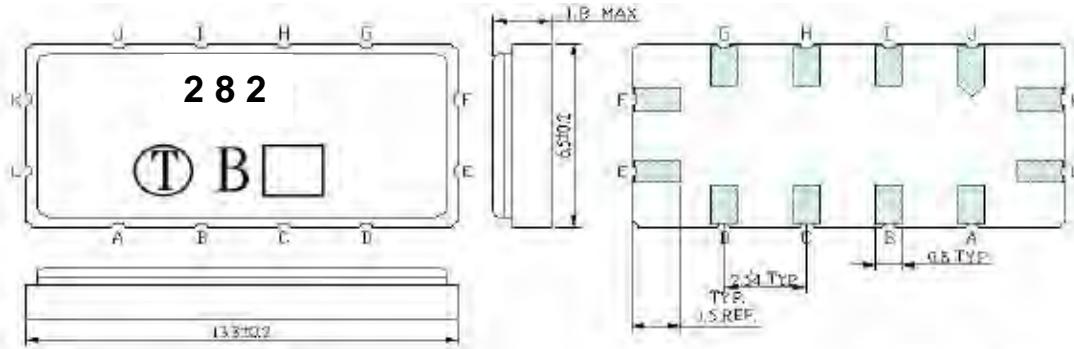
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, F_c	MHz	49.5	50	50.5	-
Minimum Insertion Loss, IL	dB	-	13.5	15	-
Amplitude ripple at any 200KHz bandwidth within 10.6MHz	MHz	-	0.5	1	-
1dB Bandwidth	MHz	10.6	10.7	-	-
3dB Bandwidth	MHz	-	11.4	12	-
40dB Bandwidth	MHz	-	15	16.9	-
Group Delay Variation within 5.6MHz BW	nS		135	200	-
Phase Linearity within 5.6MHz BW	rms		1.5	2	-
Triple transit suppression	dB	35	40	-	-
Attenuation:(Reference level from Min IL)					
(1) DC~35MHz	dB	45	54		
(2) 35MHz~41MHz	dB	40	46		
(3) 59MHz~65MHz	dB	35	38		
(4) 65MHz~125MHz	dB	40	43		

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C. OUTLINE DRAWING:



Unit: mm

-
- Pin K: RF Input
 - Pin E: RF Output
 - Pin L: Input Ground
 - Pin F: Output Ground
 - Pin A, B, C, D, G, H, I, J: To be Ground
 - : Date code

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D. FREQUENCY CHARACTERISTICS:

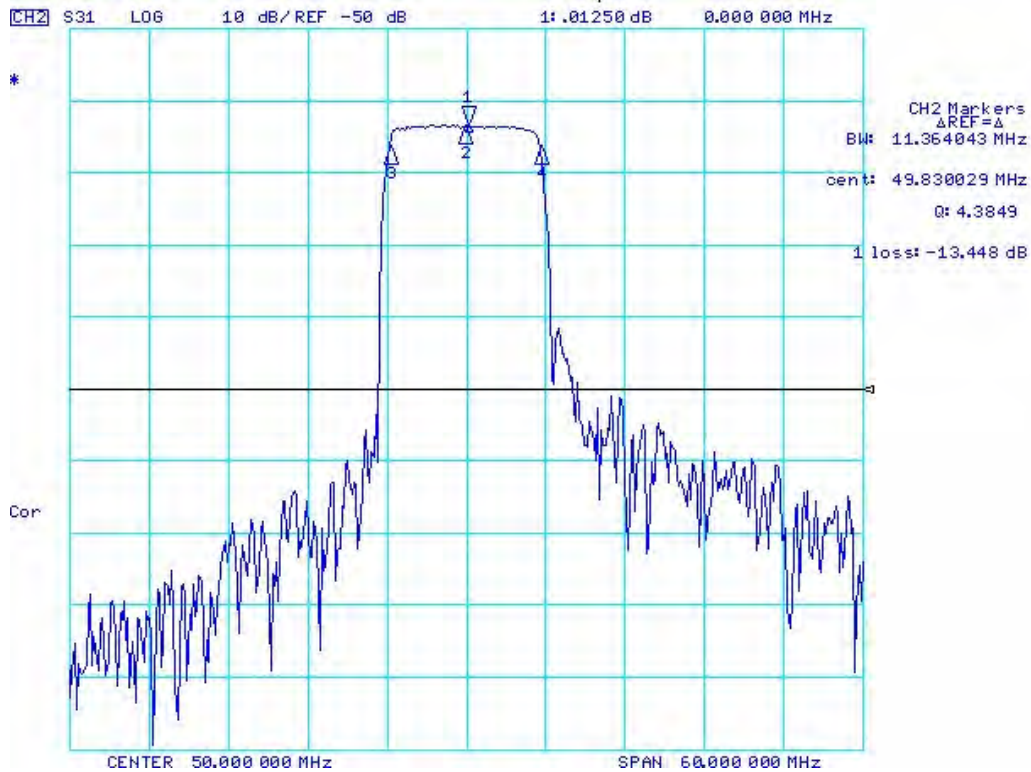


Fig. 1 S21 Response Horizontal: 6MHz; Vertical: 10dB/Div

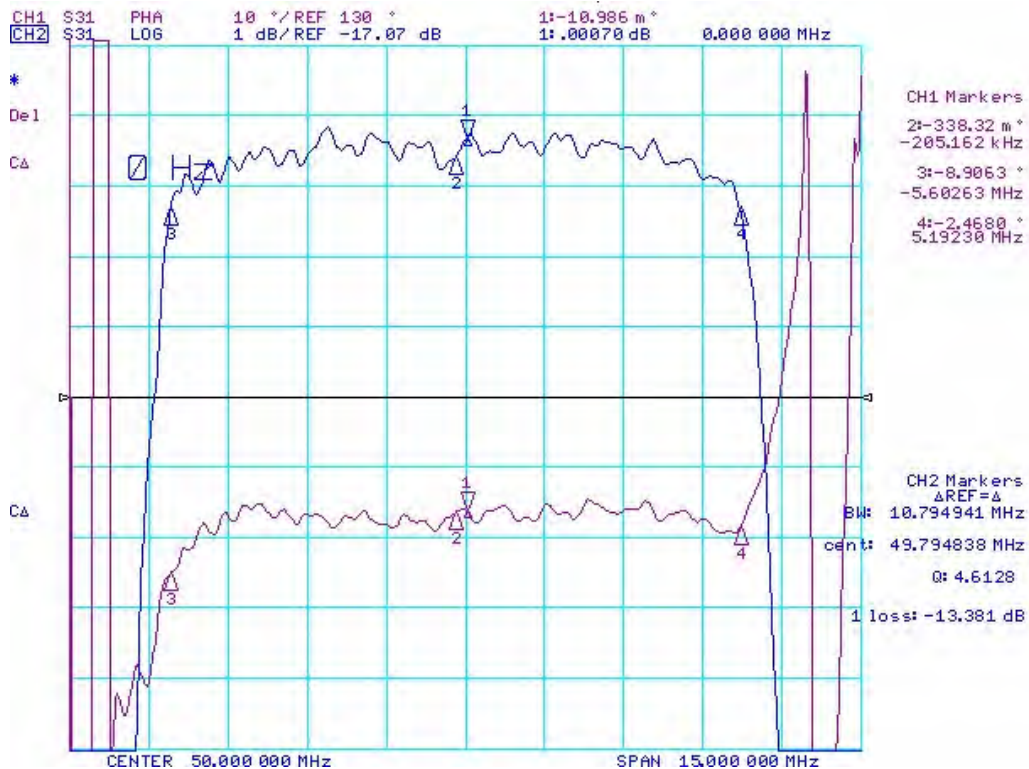


Fig. 2 Inband ripple and phase Horizontal: 1.5MHz; Vertical: 1dB/Div, 10deg/Div

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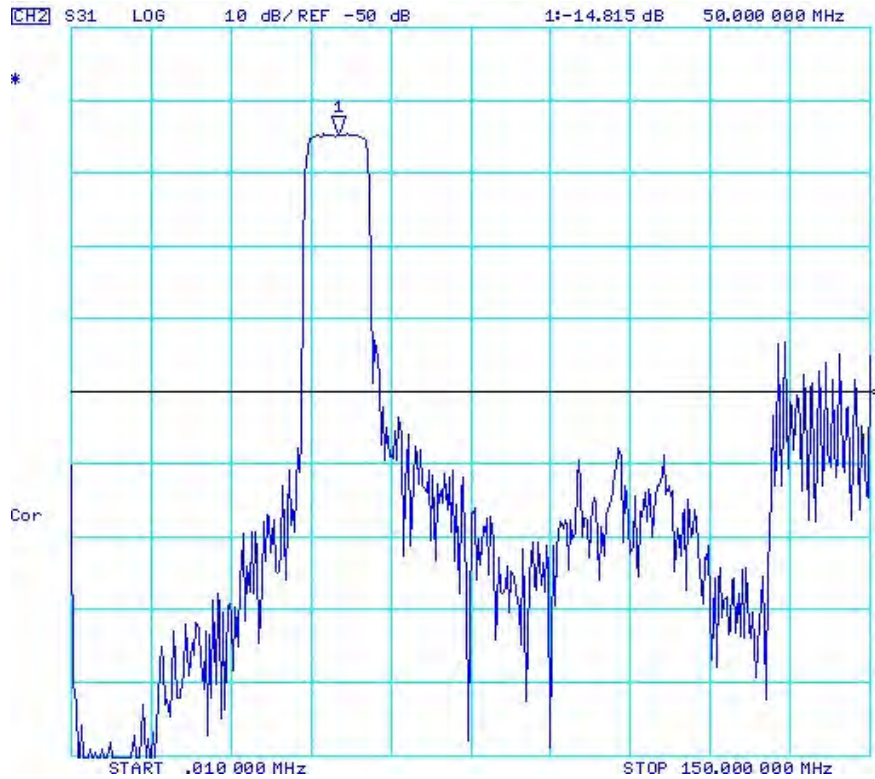


Fig. 3 Wideband response Horizontal: 0.01MHz~150MHz; Vertical: 10dB/Div

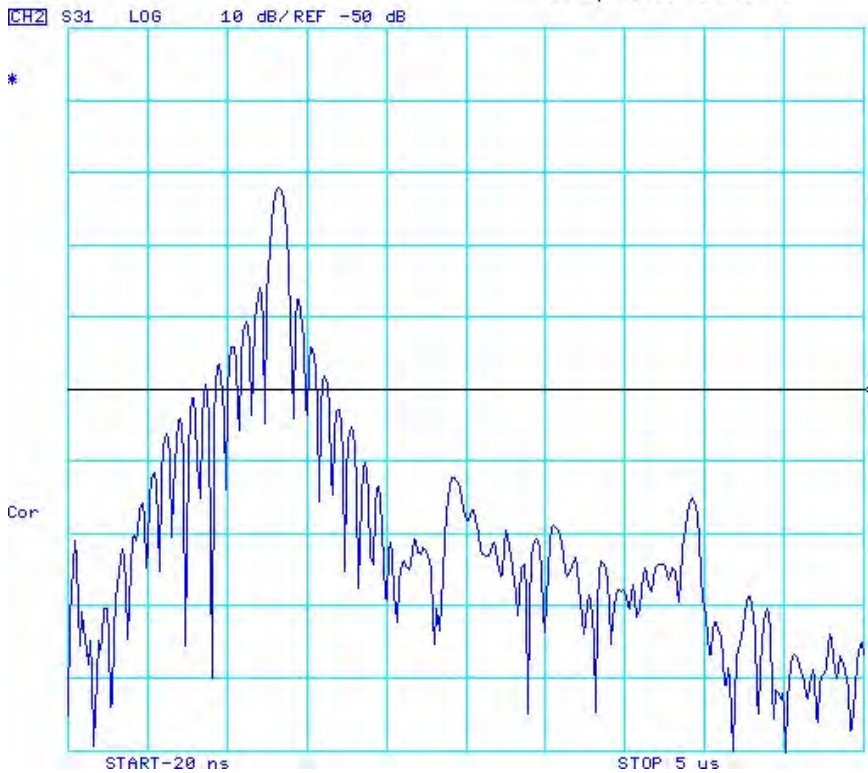


Fig. 4 Time domain response Horizontal: -20nS~5uS; Vertical: 10dB/Div

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E MATCHING CIRCUIT:

