

SAW Filter 70.0MHz - Low loss

Model: TB0193A

Part No: MA05327

REV NO.: 2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. Operating Temperature: -30°C to +80°C
3. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, F_c	MHz	-	70	-	
Insertion Loss, IL	dB	-	8.5	9.5	
1dB Bandwidth	MHz	6.2	6.71	-	
3dB Bandwidth	dB	7	7.78		
40dB Bandwidth	MHz		11	11.95	
Passband ripple (67.2MHz~72.8MHz)	dB	-	0.73	1	
Phase Linearity(67.2MHz~72.8MHz) (rms)	deg	-	4.5	8	
Group Delay ripple (67.2MHz~72.8MHz)	nS		98	125	
Absolute Delay	µS	-	0.86	-	
Attenuation Reference level (from Min IL)					
0 ~ 64.25MHz	dB	40	47	-	
75.75~140MHz	dB	40	44	-	
Substrate Material	-	-	YZ-LN	-	
Temperature Coefficient	ppm/°C	-	-94	-	
Ambient Temperature	°C	-	25	-	

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C. FREQUENCY CHARACTERISTICS:

(1) S21 Response:

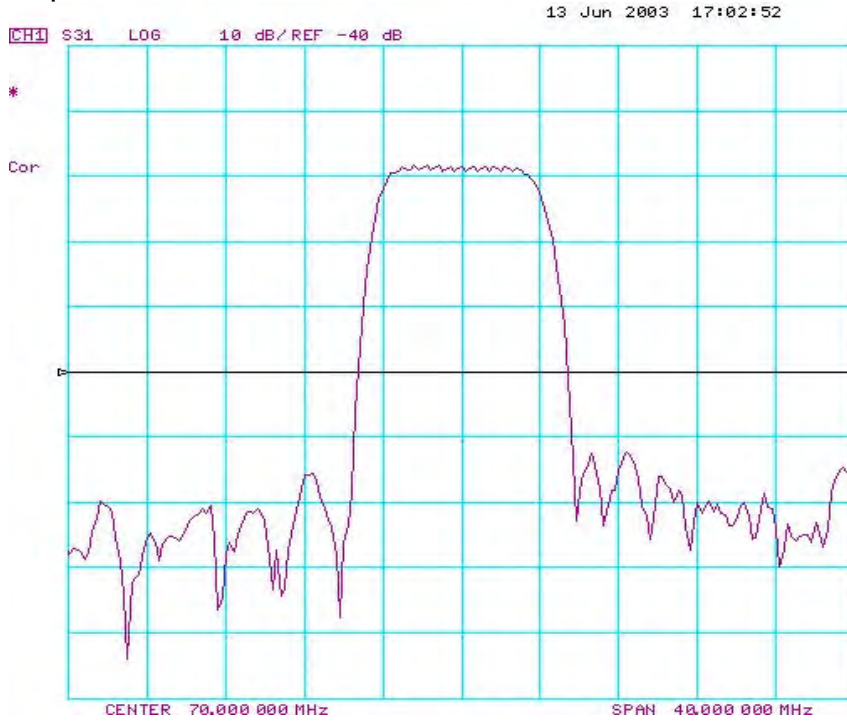


Fig-1 S21 Response Horizontal: 4MHz/Div. Vertical: 10dB/Div

(2) Passband of Response:

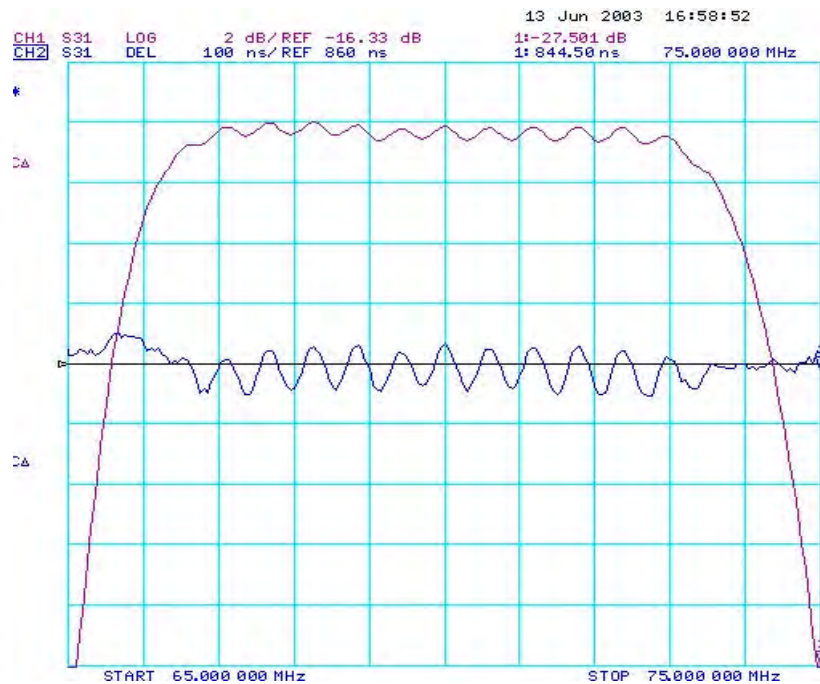


Fig-2 Group Delay and Ripple, Horizontal: 1MHz/Div. Vertical: 2 dB/Div Vertical: 100nS/Div

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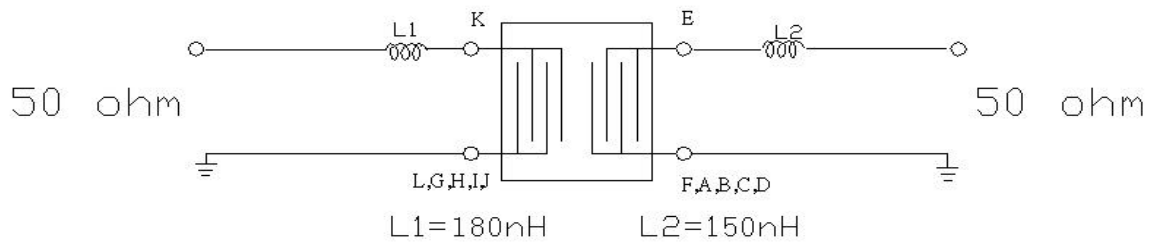
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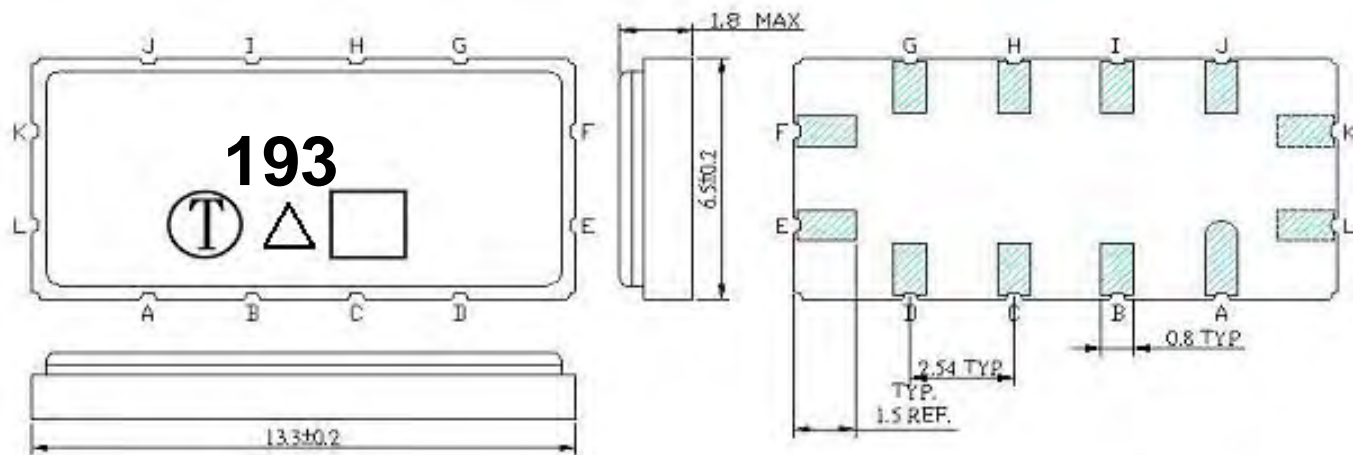
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D. MEASUREMENT CIRCUIT:

1) For 50 ohm Unbalanced Input and Output



E. 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,J,I,H,G: To be Ground

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F. Recommended Reflow Profile:

