

SAW Filter 70.0MHz
Part No: MP03411

Model: TB0884A
Rev No: 1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 10V

B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	70	-
Insertion Loss IL	dB	-	8.7	10.0
-1dB bandwidth	MHz	7.35	8.0	-
-3dB bandwidth	MHz	8.0	9.0	-
-40dB bandwidth	MHz	-	12.5	13.5
Passband Ripple Fc ± 2.5MHz	dB	-	0.6	1.0
Group Delay variation Fc ± 2.5MHz	nsec	-	75	120
Absolute Delay	unec	-	0.9	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ω	-	50	-
Load Impedance	Ω	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 80MHz)

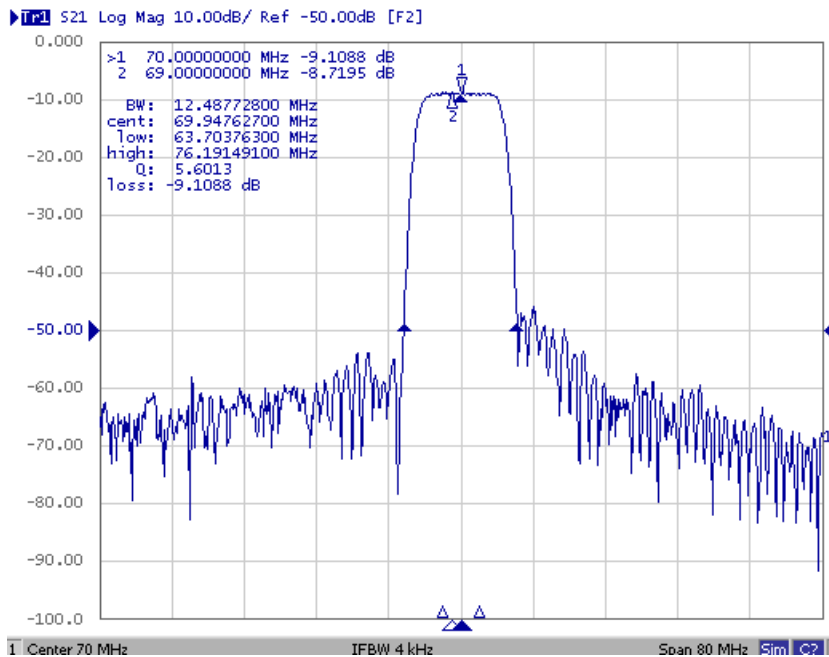


Fig. 1. Horizontal: 8MHz/Div, Vertical: 10dB/Div

2. Pass band Response and Group Time Delay response:

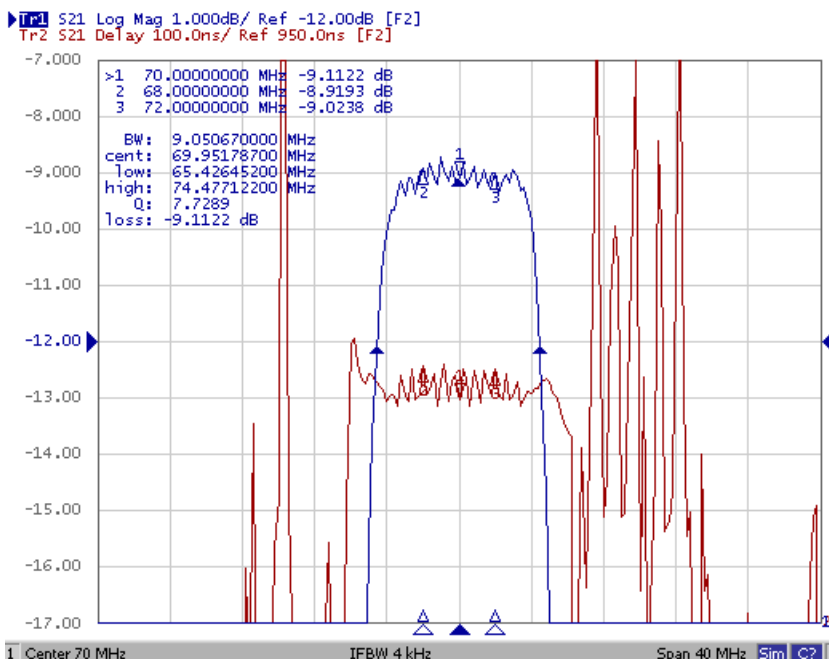


Fig. 2. Horizontal: 4MHz/Div, Vertical: 1dB/Div, Vertical: 100ns/Div

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3. Wide band Response:

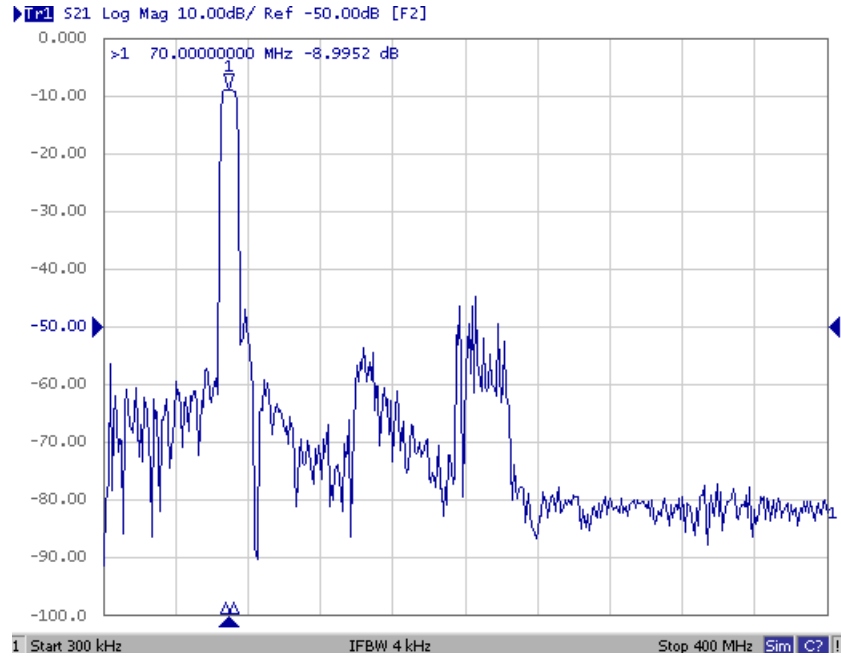
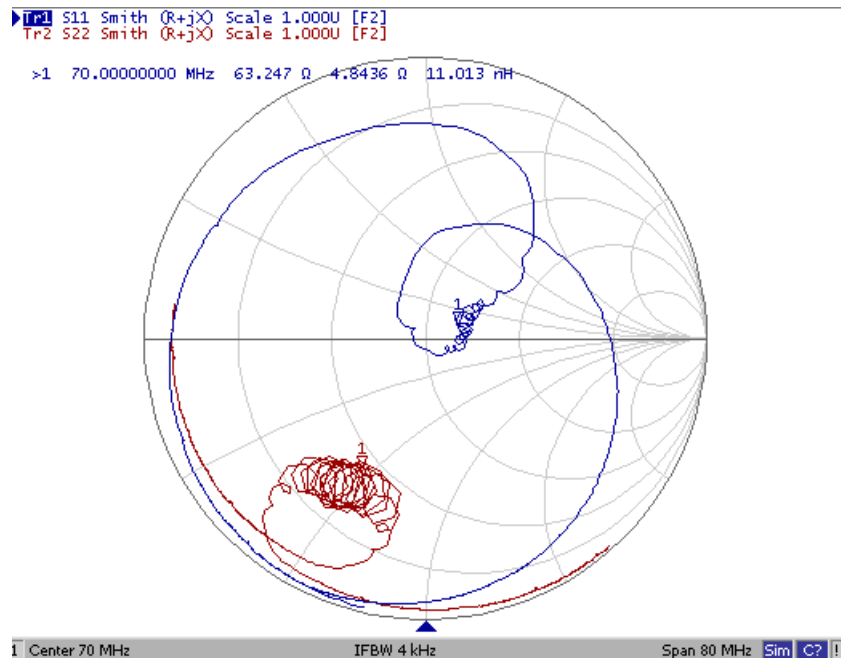


Fig. 3. Horizontal: 40MHz/Div, Vertical: 1dB/Div

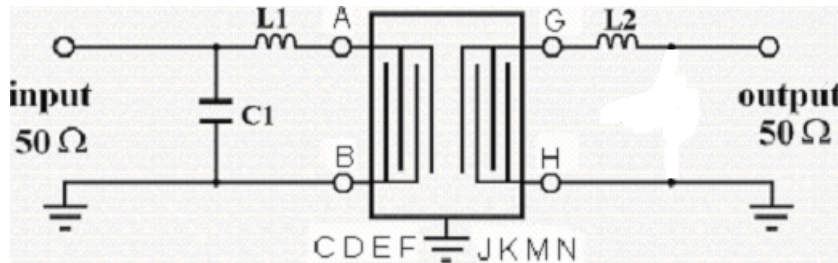
4. Smith Chart:



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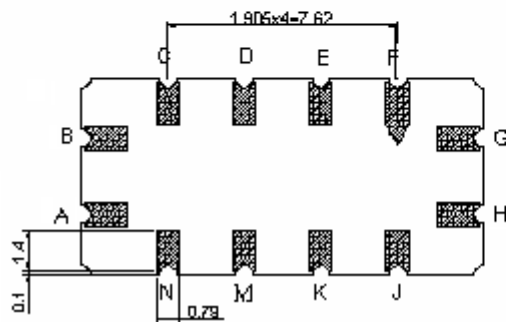
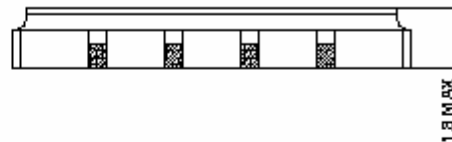
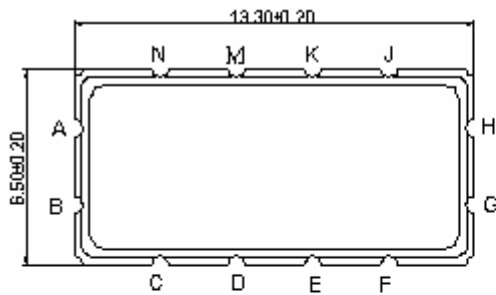
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D. MATCHING CIRCUIT:



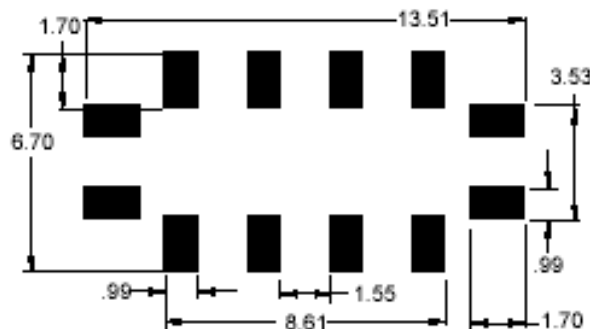
L1 = 150nH, C1 = 56pF, L2 = 39nH

E. OUTLINE DRAWING:



- A - RF input
 - B - RF input ground
 - G - RF output
 - H - RF output ground
 - C, D, E, F, J, K, M, N - Ground
- Unit: mm

F. PCB FOOTPRINT:

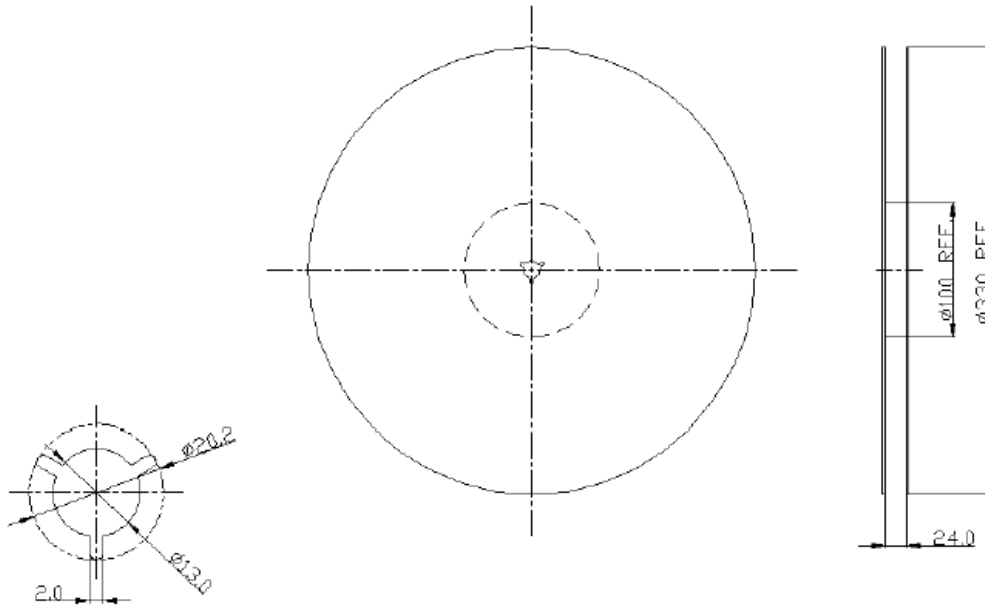


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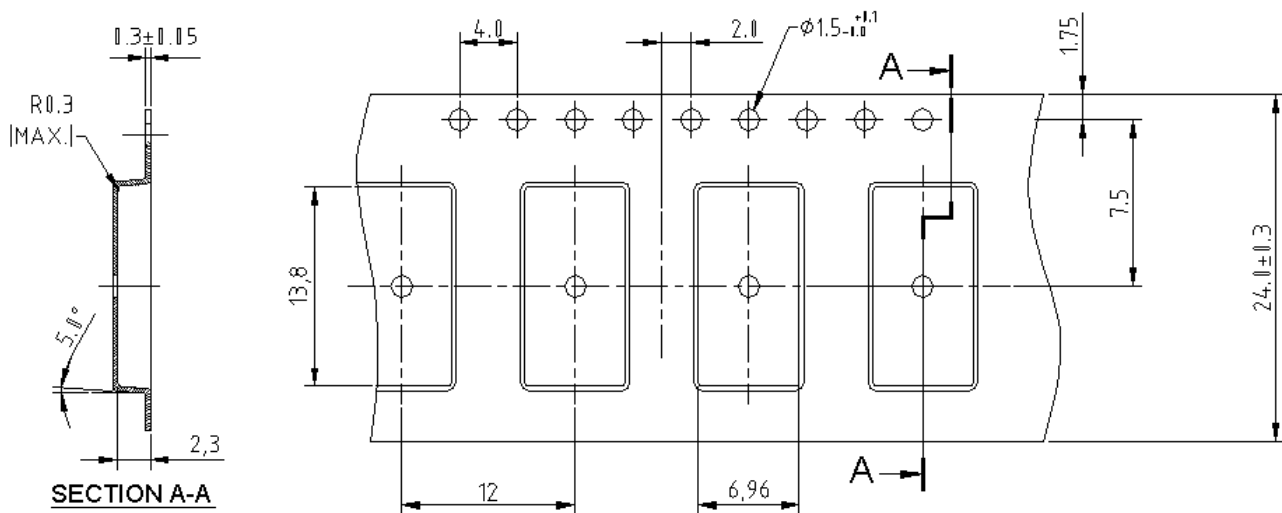
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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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H. RECOMMENDED REFLOW PROFILE:

