

SAW Filter 77.50MHz
Part No: MP05073

Model: TB0885A
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	-	77.5	-
Insertion Loss IL	dB	-	11.2	12.5
-1dB bandwidth	MHz	-	1.13	-
-3dB bandwidth	MHz	1.0	1.4	-
-40dB bandwidth	MHz	-	2.48	2.65
Passband Ripple Fc ± 0.3MHz	dB	-	0.6	1.0
Group Delay variation Fc ± 0.3MHz	nsec	-	350	400
Absolute Delay	unec	-	0.9	-
Temperature Coefficient	ppm/°C2	-	-0.036	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 10MHz)

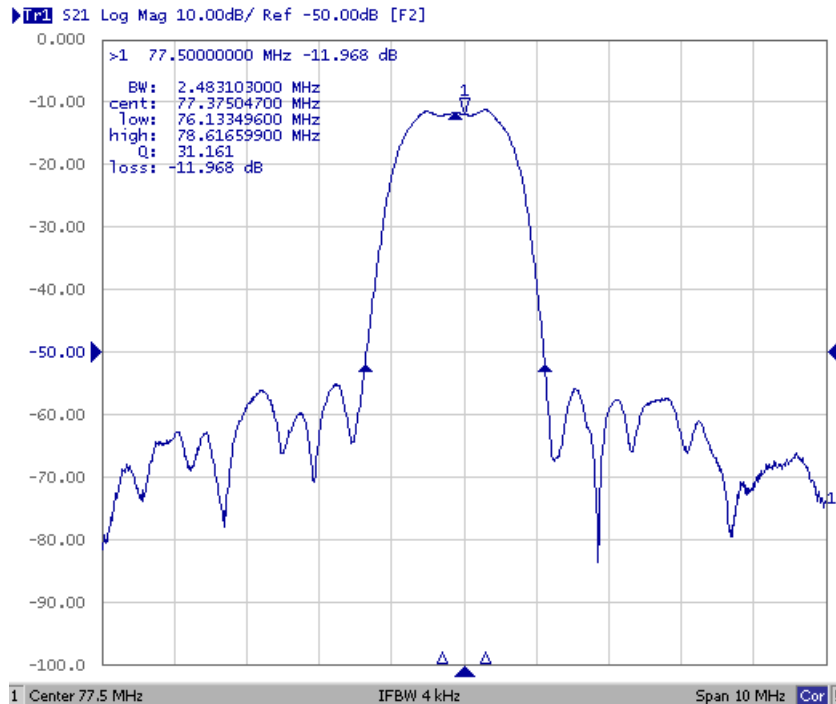


Fig. 1. Horizontal: 1MHz / Div, Vertical: 10Db / Div

2. Pass band Response and Group Time Delay response:

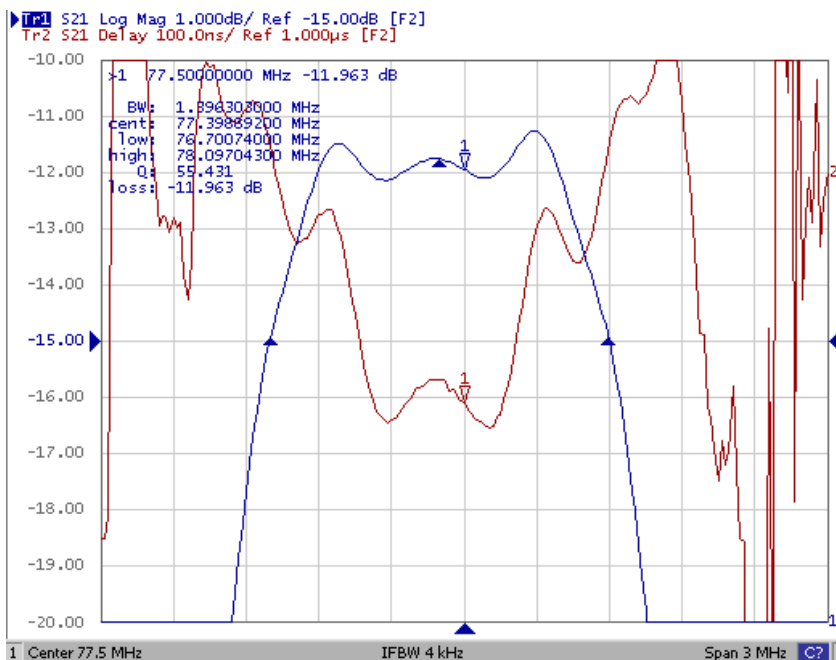


Fig. 2. Horizontal: 4MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

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3. Wide band Response:

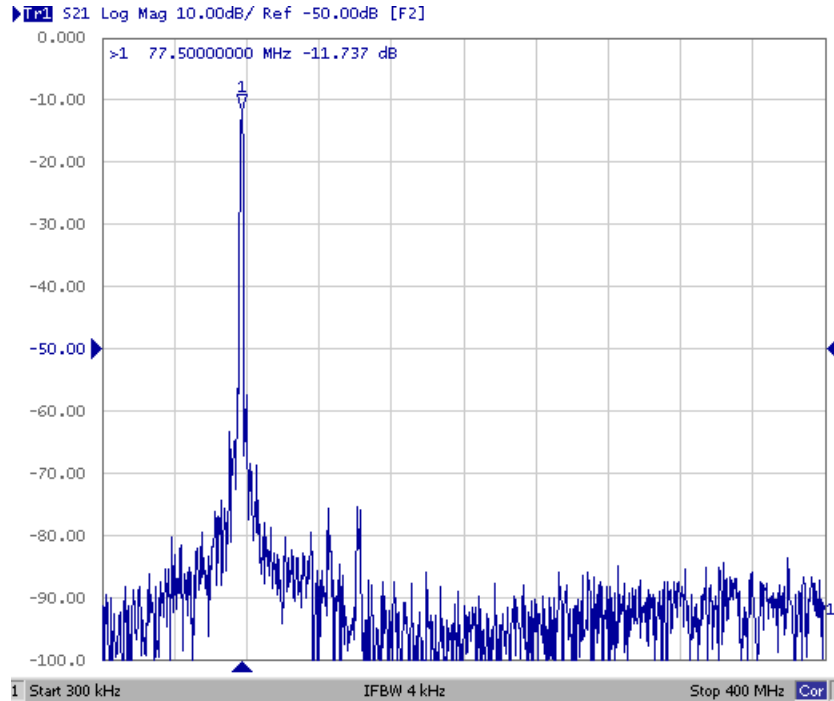
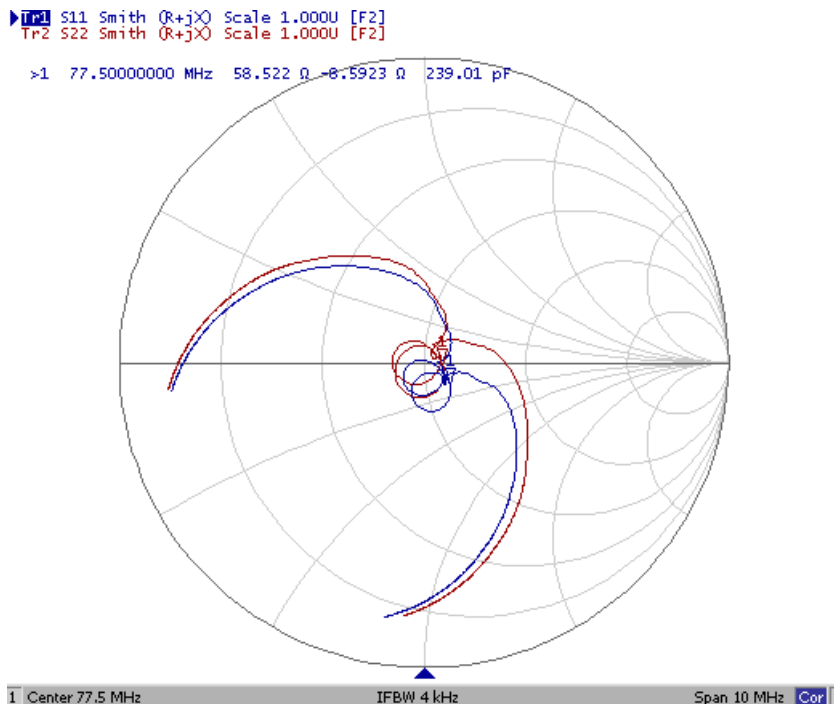


Fig. 3. Horizontal: 40MHz / Div, Vertical: 1dB / Div

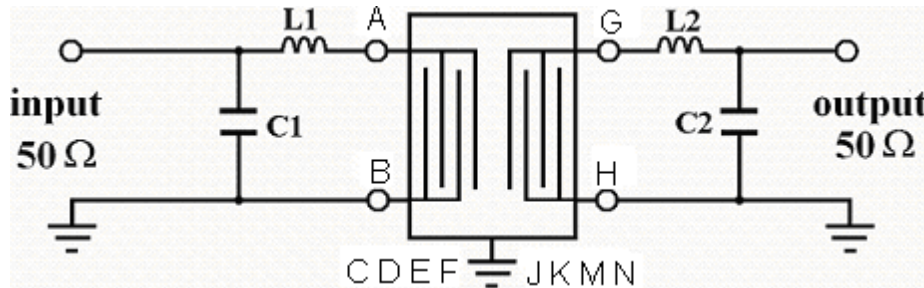
4. Smith Chart:



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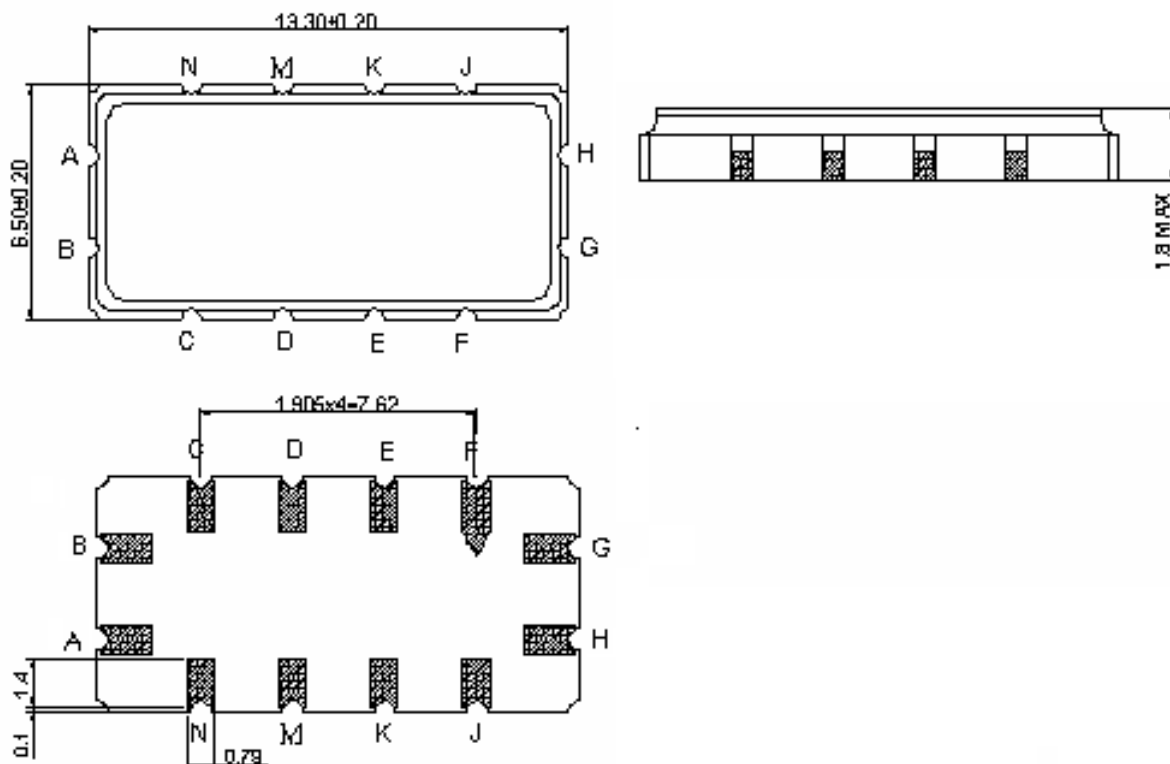
Model: TB0885A
Rev No: 1

D. MATCHING CIRCUIT:



$L1 = 430\text{nH}$, $C1 = C2 = 82\text{ pF}$, $L2 = 390\text{nH}$

E. OUTLINE DRAWING:

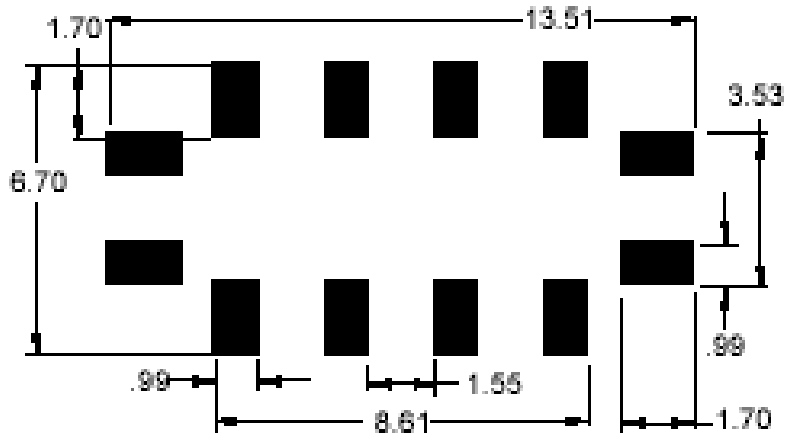


- A: RF input
 - B: RF input ground
 - G: RF output
 - H: RF output ground
 - C, D, E, F, J, K, M, N: Ground
- Unit: mm

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F. PCB FOOTPRINT:

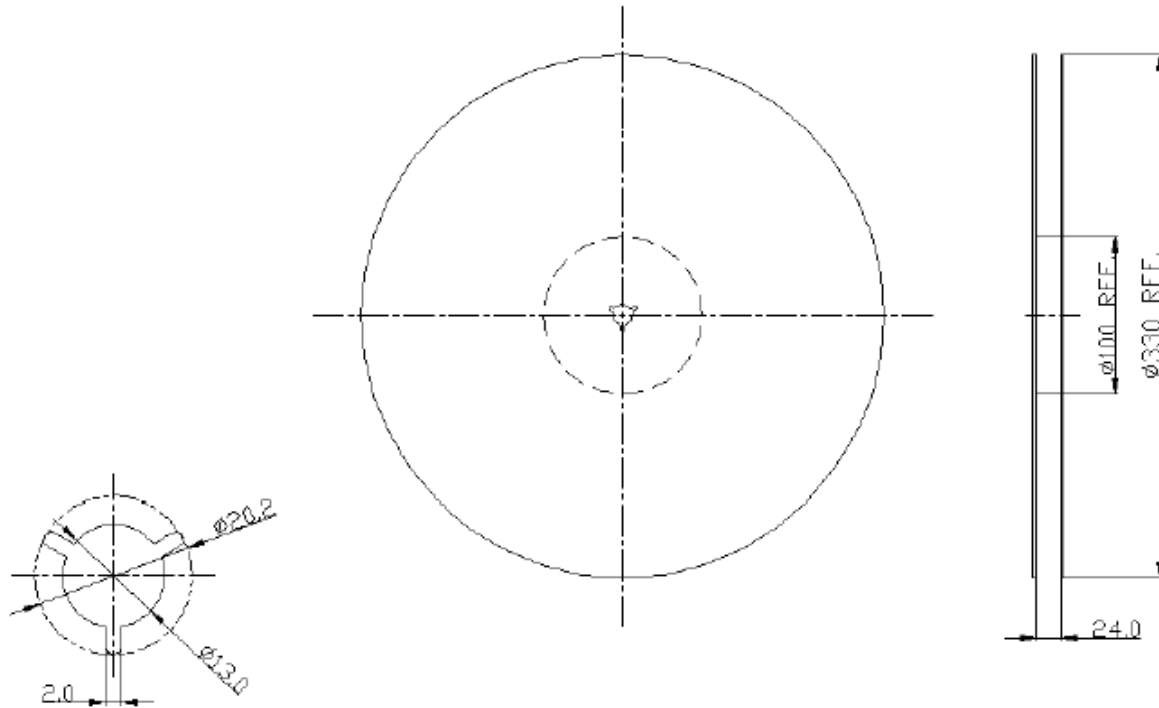


SAW Filter 77.50MHz
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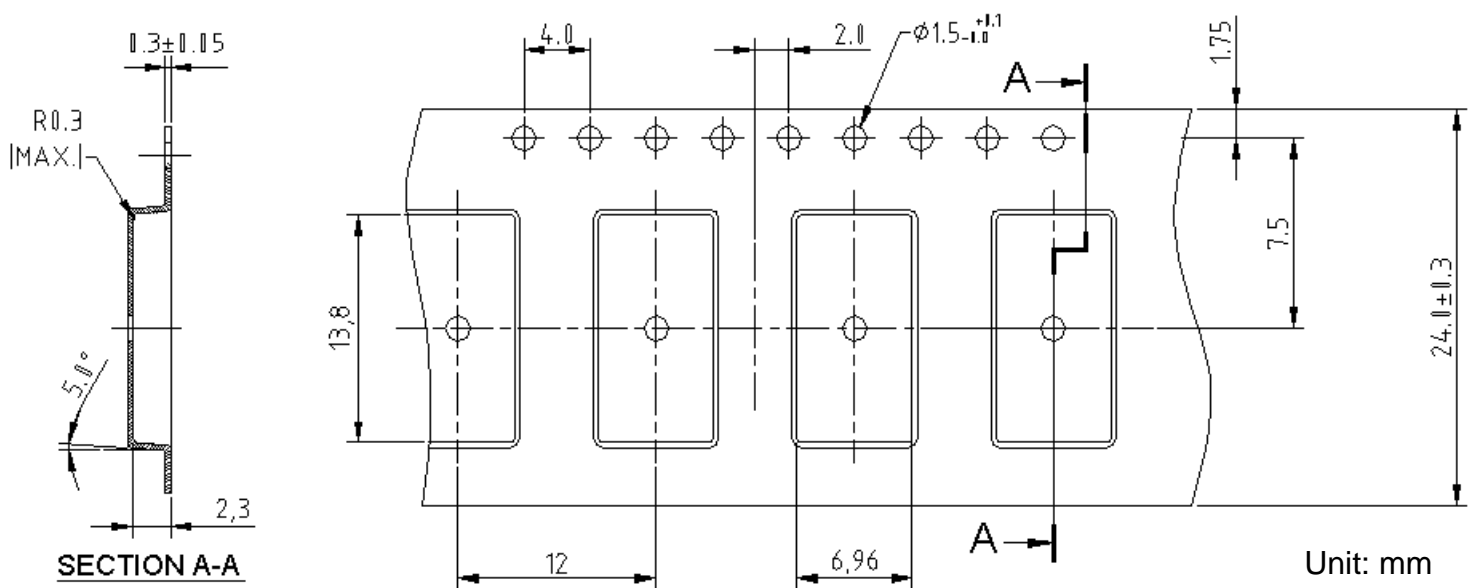
G. PACKING:

1. Reel Dimension



Unit: mm

2. Tape Dimension



Unit: mm

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H. RECOMMENDED REFLOW PROFILE:

