

SAW Filter 192.0MHz

Model: TB1131A

Part No: MP07097

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Operating temperature range: -30°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 10dBm
4. Maximum DC Voltage: 0V

B. CHARACTERISTICS:

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	192	-
Insertion Loss IL	dB	-	16.5	17.5
1.2dB Bandwidth	MHz	60	64	-
Passband Ripple Fc ± 30MHz	dB	-	0.7	1.2
Absolute group Delay	us	-	0.4	-
Group Delay variation Fc ± 30MHz	ns	-	40	60
Attenuation (Reference level from minimum Insertion loss)				
10MHz ~ 135.5MHz	dB	40	44	-
135.5MHz ~ 145.5MHz	dB	35	44	-
238.5MHz ~ 248.5MHz	dB	35	42	-
248.5MHz ~ 450MHz	dB	40	42	-
450MHz ~ 770MHz	dB	35	43	-
770MHz ~ 1000MHz	dB	40	60	-
Temperature Coefficient	ppm/°C	-	-94	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Narrow band Response:

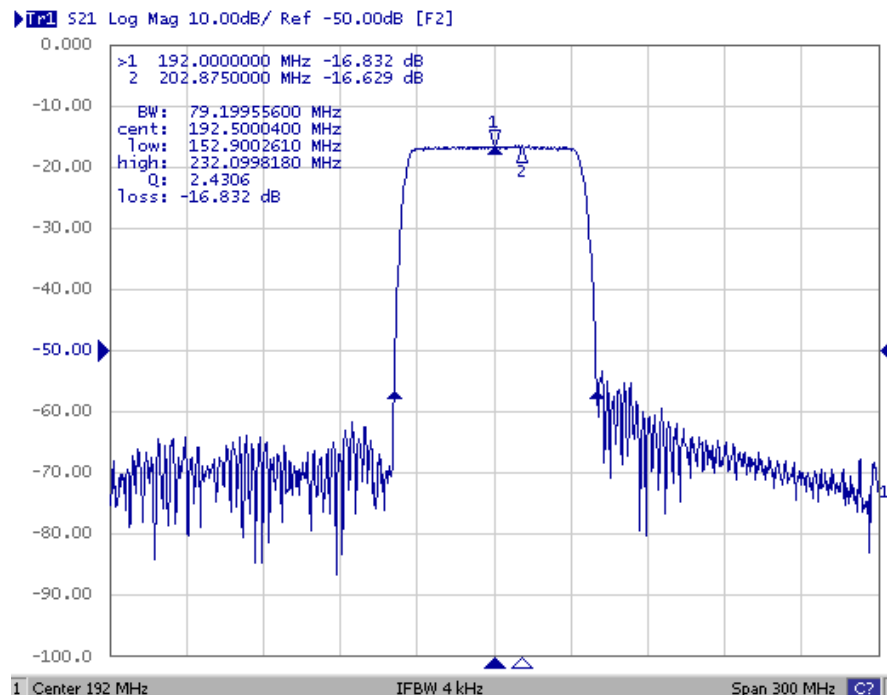


Fig. 1. Horizontal: 30MHz / Div, Vertical: 10dB / Div

2. Pass band Response and Group Delay Response:

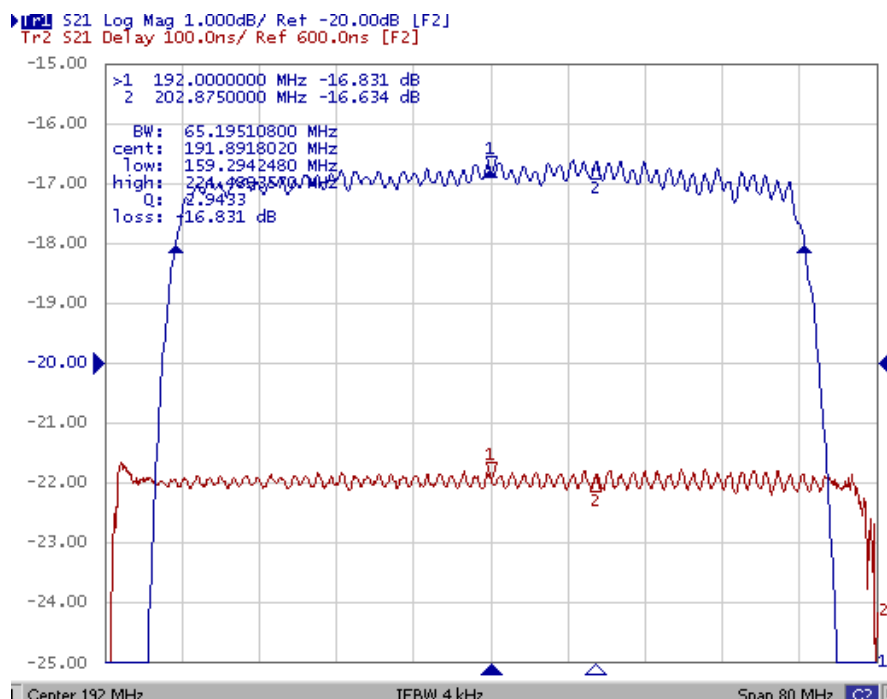
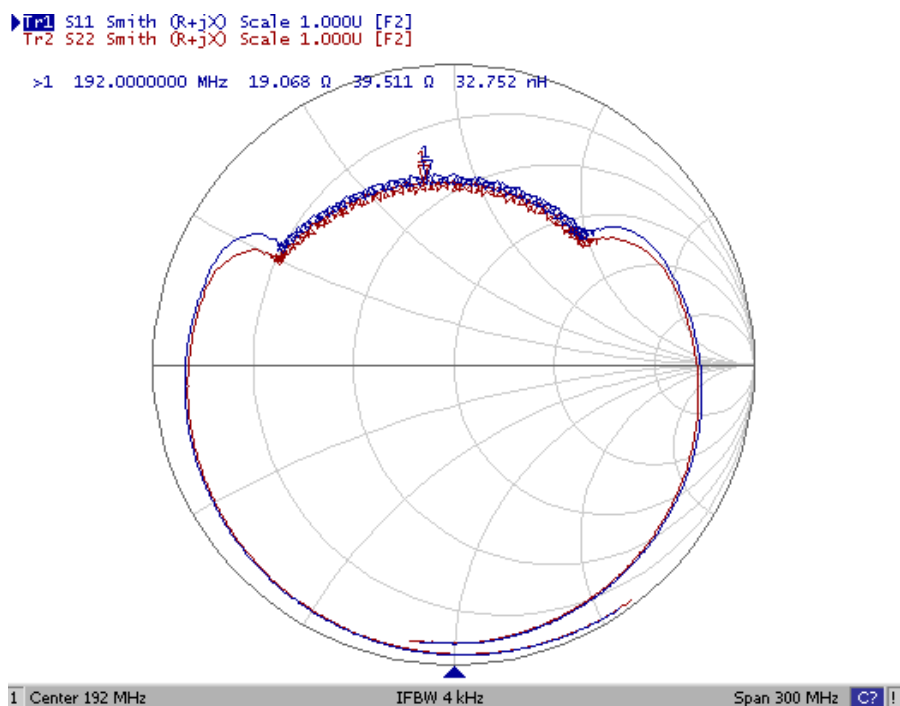


Fig. 2. Horizontal: 8MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

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3. Smith Chart:



4. Wide band Response:

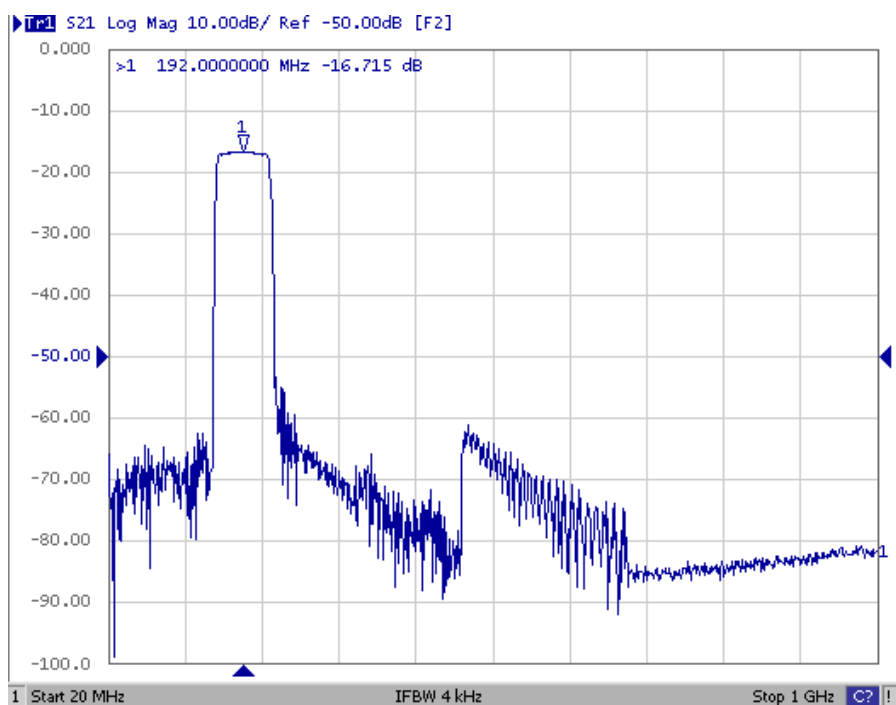
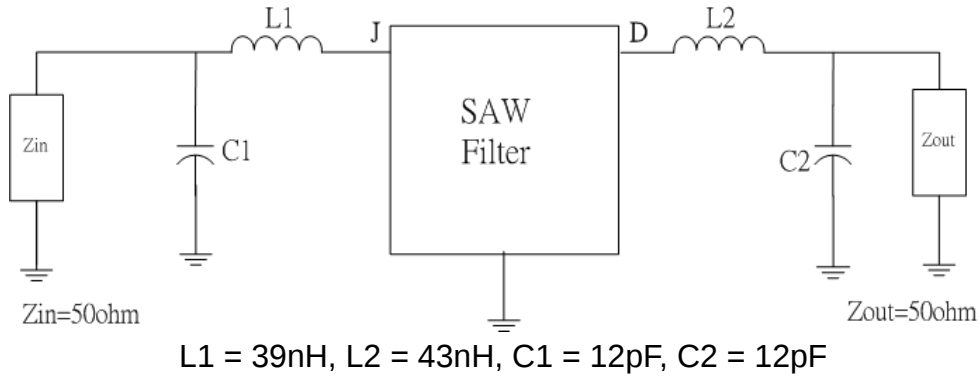


Fig. 4. Horizontal: 100MHz / Div, Vertical: 10dB / Div

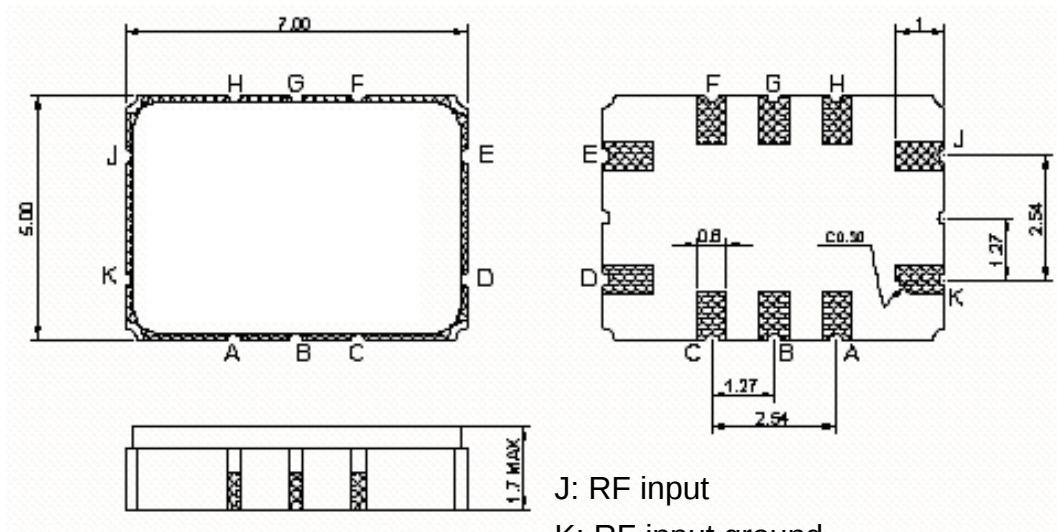
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D. MATCHING CIRCUIT:

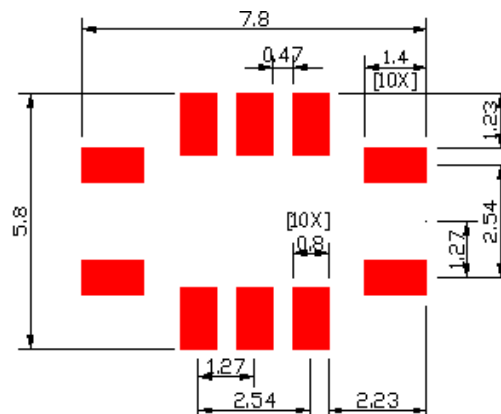


E. OUTLINE DRAWING:



J: RF input
 K: RF input ground
 D: RF output
 E: RF balance output or to be ground
 A, B, C, F, G, H: Ground
 Unit: mm

F. PCB FOOTPRINT:

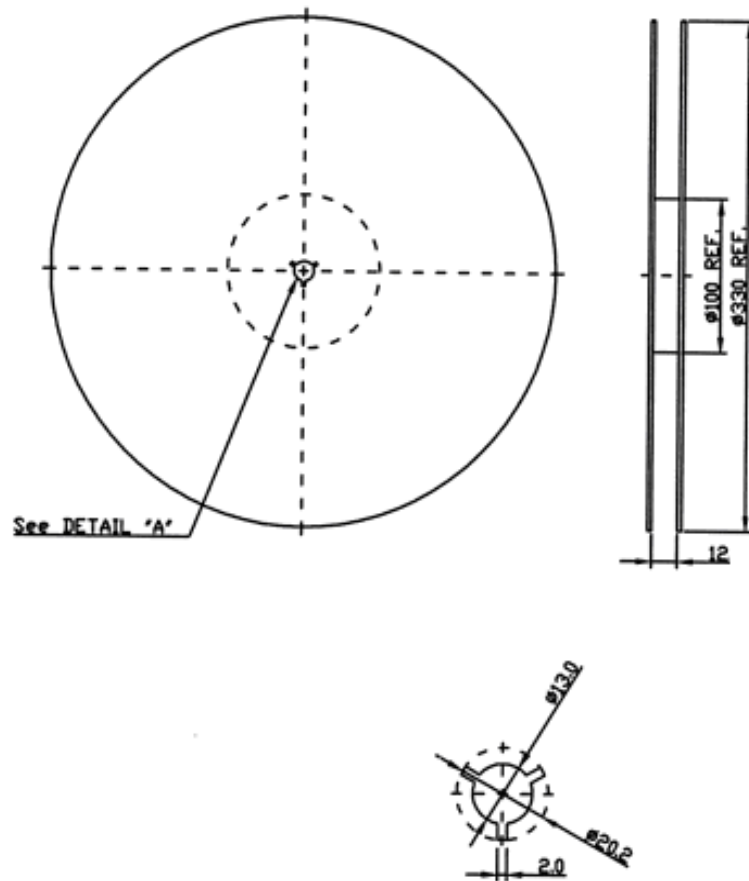


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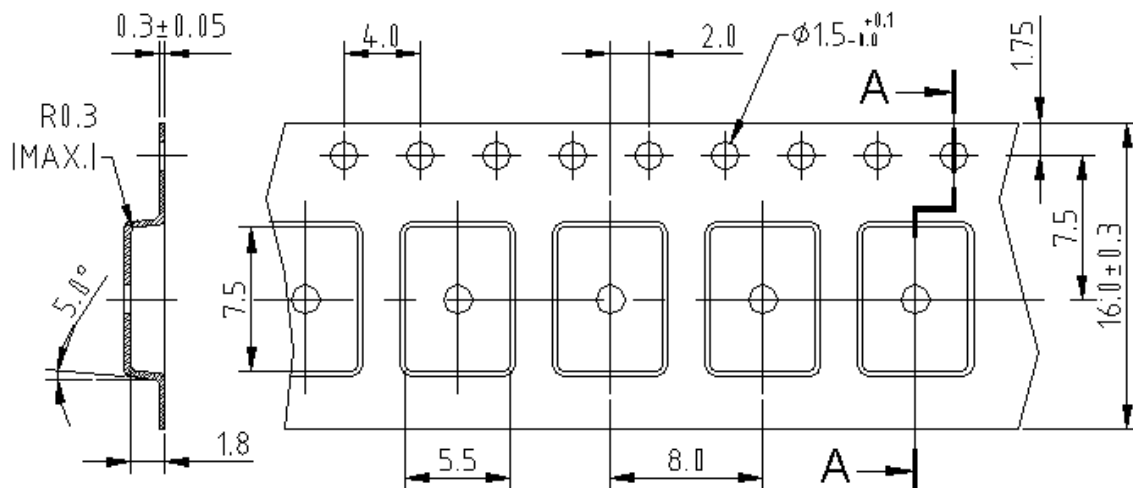
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G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

