

SAW Filter 168.0MHz
Part No: MP05338

Model: TB0891A
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device

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

B. CHARACTERISTICS:

Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	168	-
Insertion Loss IL	dB	-	12.5	14.0
-1.5dB bandwidth	MHz	-	1.0	-
-35dB bandwidth	MHz	-	3.0	4.0
Passband Ripple Fc ± 100kHz	MHz	-	0.2	1.0
Group Delay Variation Fc ± 100kHz	nsec	-	60	150
Absolute Delay	usec	-	0.8	1.2
Temp. Coefficient	ppm/°C ²	-	-0.036	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 50MHz)

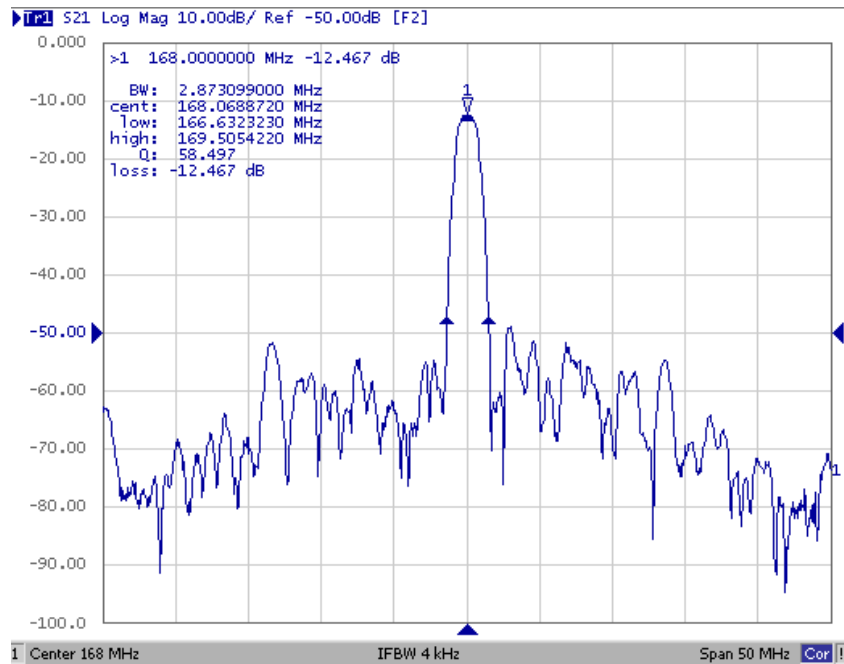


Fig 1: Horizontal: 5MHz / Div, Vertical: 10Db / Div

2. Pass band Response and Group Delay Response:

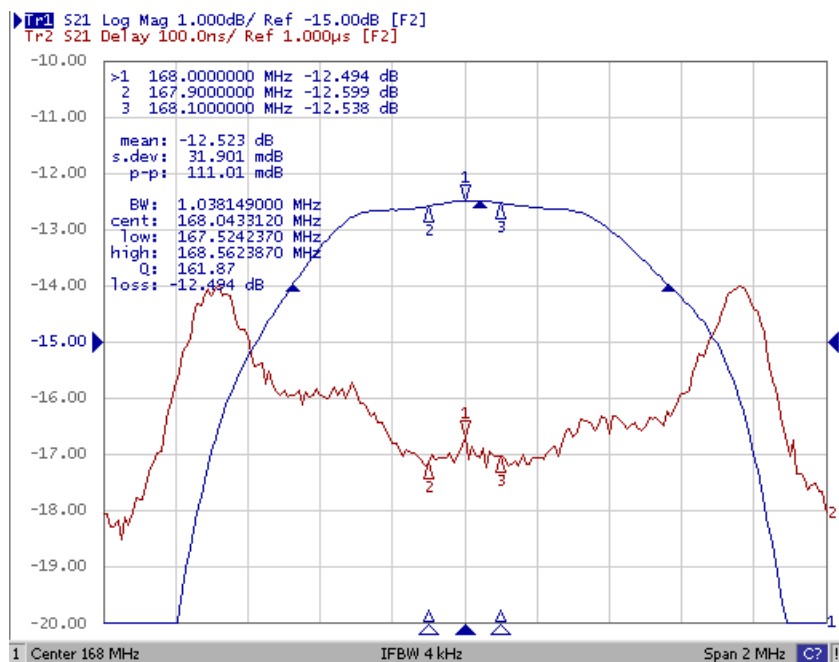
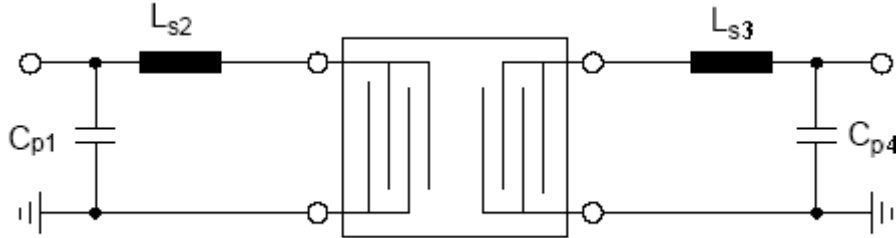


Fig 2: Horizontal: 0.2MHz / Div, Vertical: 1dB / Div, Vertical: 100ns / Div

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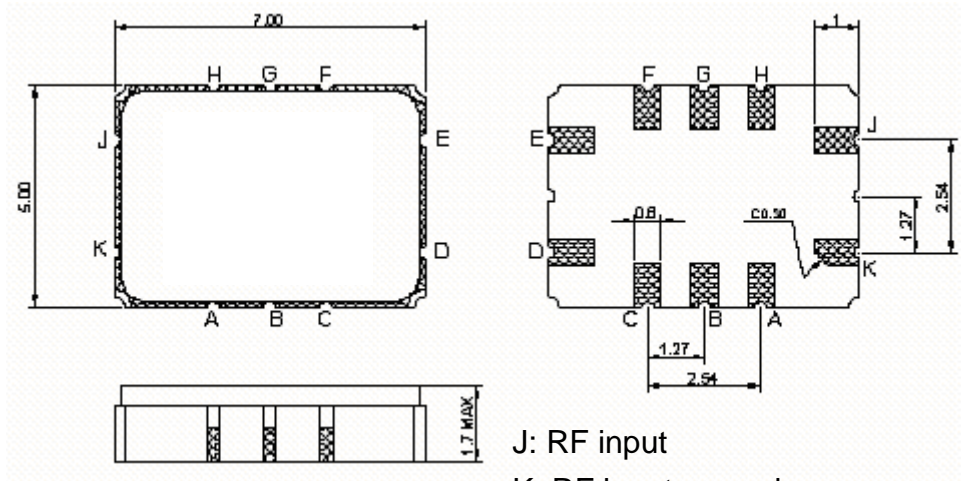
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D. MATCHING CIRCUIT:



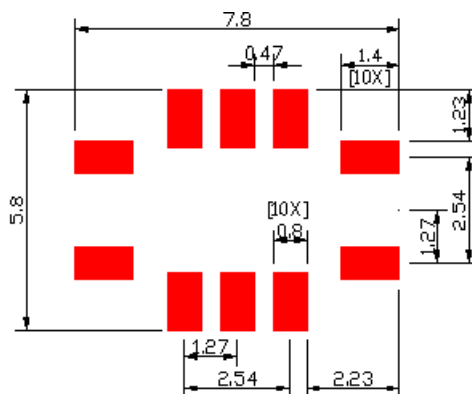
$LS2 = 180nH + 24Nh$, $LS3 = 150nH + 8.2nH$, $CP1 = 39pF$, $CP4 = 33pF$

E. OUTLINE DRAWING:



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

F. PCB FOOTPRINT:



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H. RECOMMENDED REFLOW PROFILE:

