
SAW Filter 168.0MHz**Model: TB0727A****Part No: MP02660****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 : 10 dBm
4. Maximum DC Voltage : 10V

B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency, Fc	MHz	-	168	-
Insertion Loss, IL	dB	-	12.2	13.5
-1dB BW	MHz	-	20.9	-
-3dB BW	MHz	20	22.4	-
Upper -35dB Band edge	MHz	-	181.7	183
Lower -35dB Band edge	MHz	153	155.1	-
Passband ripple at Fc +/- 8MHz	dB	-	0.4	1.0
Group delay ripple at Fc +/- 8MHz	ns	-	35	160
Absolute delay	us	-	0.85	1.0
Temperature Coefficient	ppm/°C	-	-72	-
Source / Load Impedance	Ohm	-	50	-

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C. FREQUENCY CHARACTERISTICS:

(1) S21 Response:(span 180MHz)

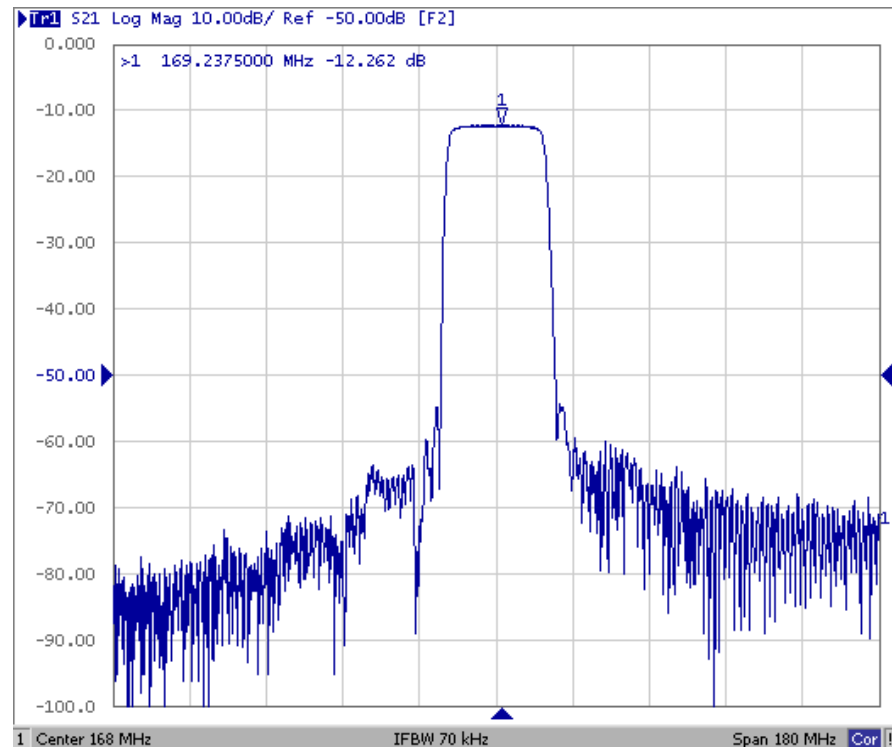


Fig1. Horizontal: 18MHz/Div Vertical: 10dB/Div

(2) Pass band Response:

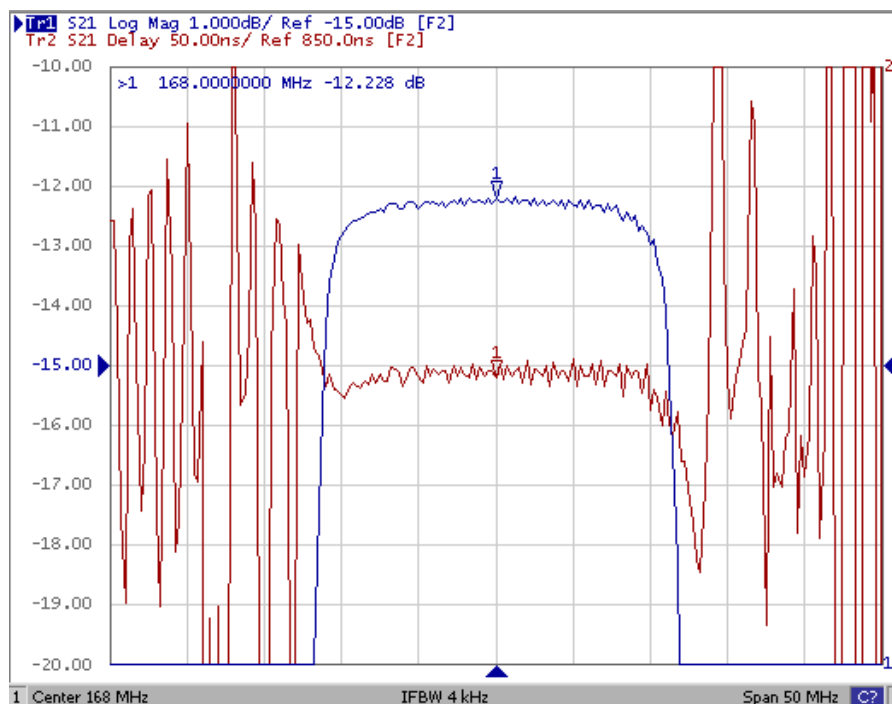


Fig2. Horizontal: 5MHz/Div Vertical: 1dB/Div. Vertical: 50ns/Div

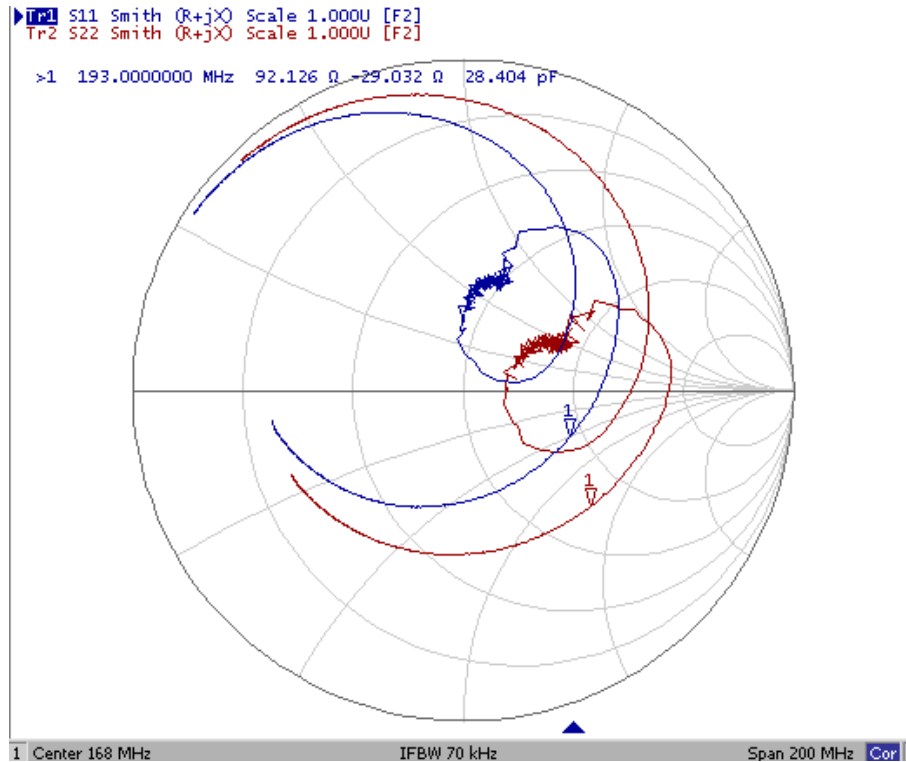
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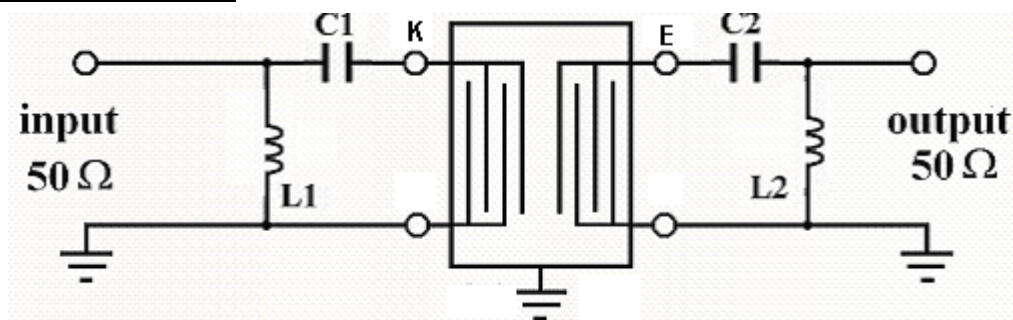
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(3) Smith chart



D. MATCHING CIRCUIT:



$$L1= 27\text{nH } L2=39\text{nH } C1=82\text{pF } C2=82\text{pF}$$

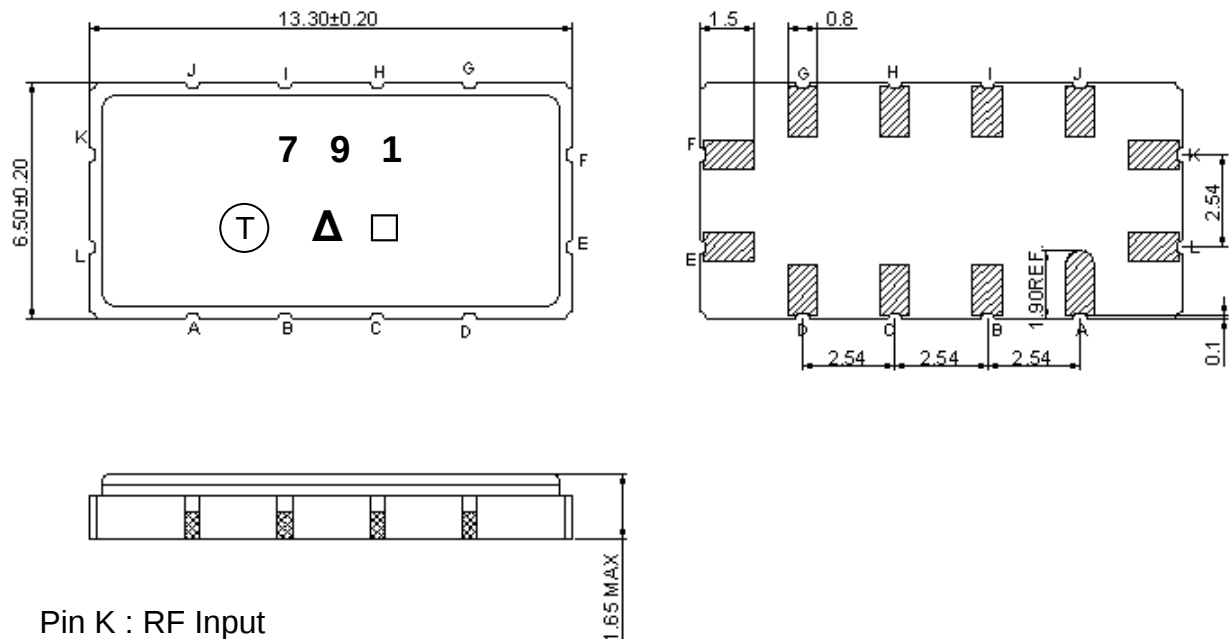
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E. OUTLINE DRAWING:



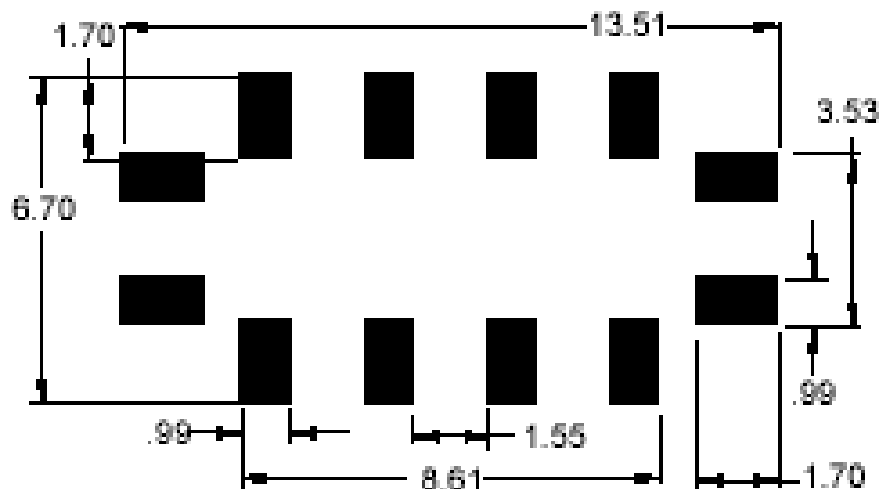
Pin K : RF Input

Pin E : RF Output

Pin A, B,C,D,F,G,H,I,J,L :

Ground

F. PCB FOOTPRINT:



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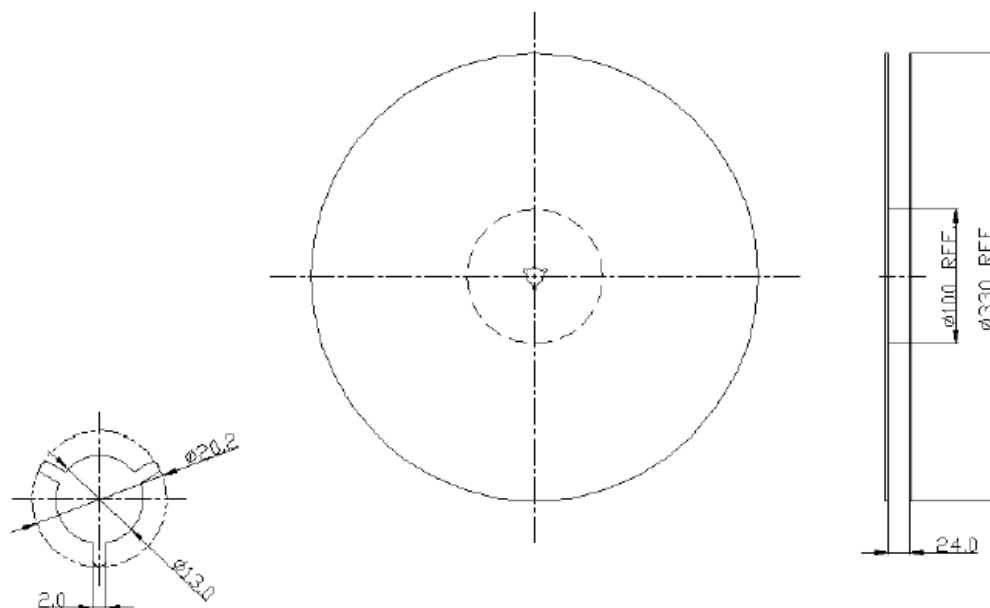
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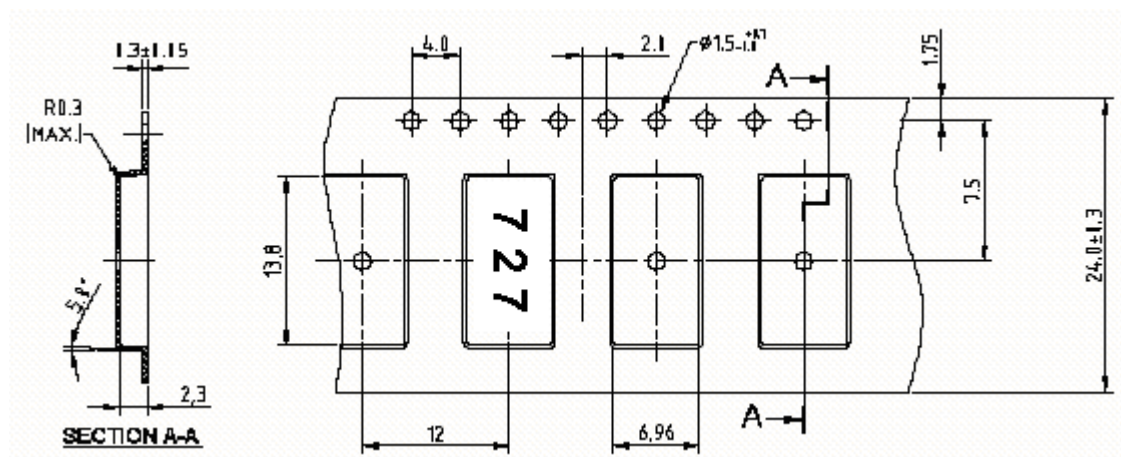
G. PACKING:

1. REEL DIMENSION



Unit: mm

2. TAPE DIMENSION



Unit: mm

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H. RECOMMENDED REFLOW PROFILE:

