

SAW Filter 836.50MHz
Part No: MP09850

Model: TA0183B
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 15dBm
2. DC voltage: +5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

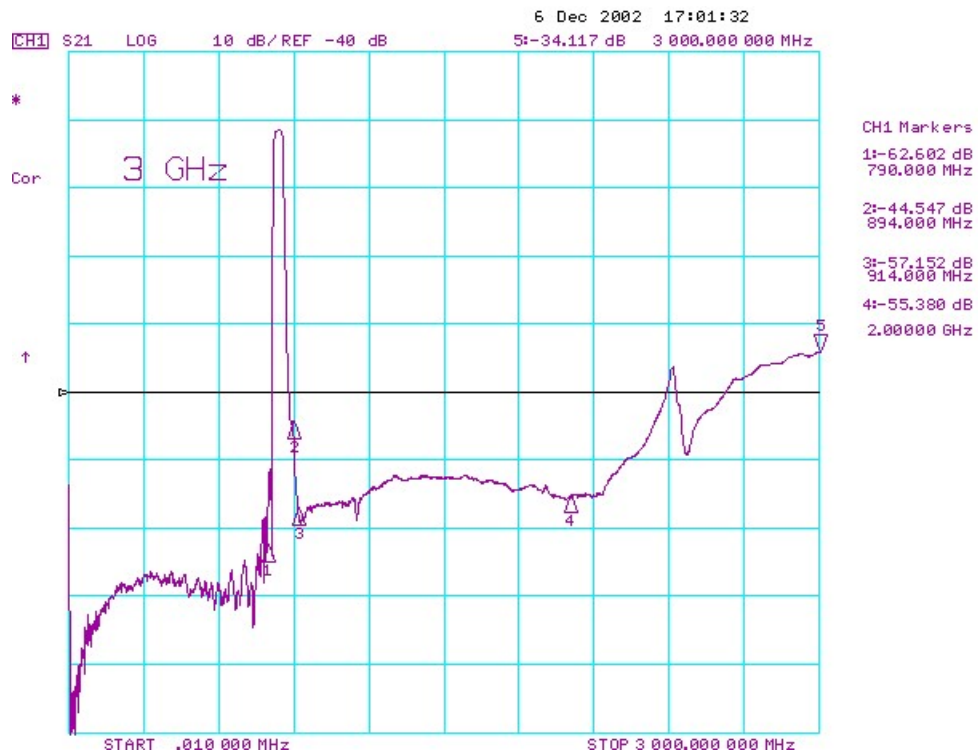
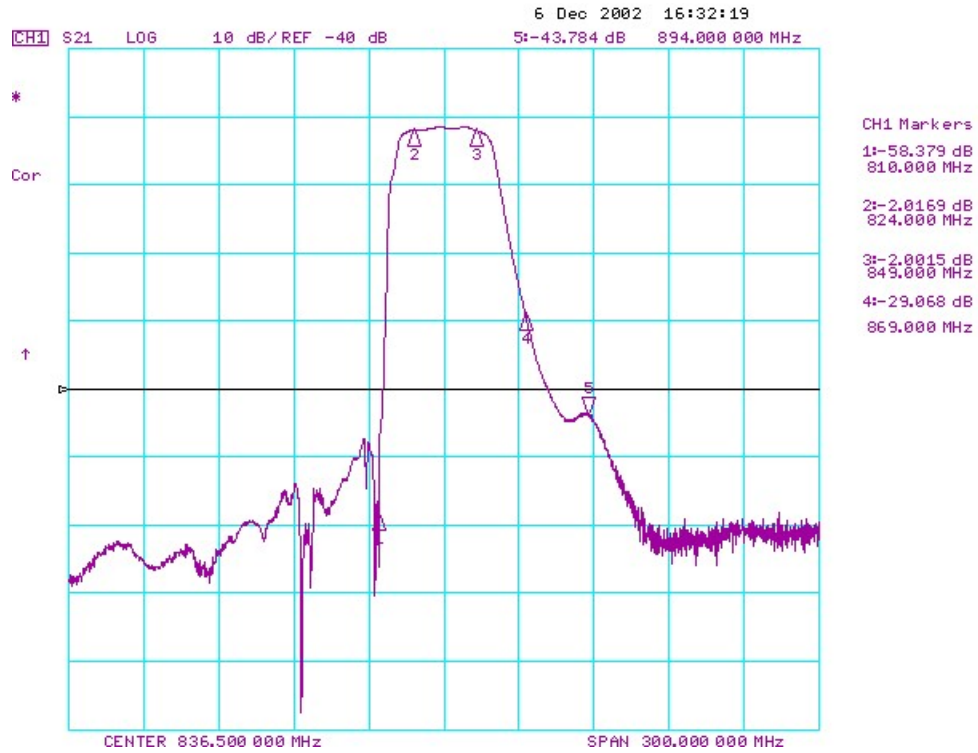
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	836.5	-
Insertion loss 824 ~ 849MHz IL	dB	-	2.1	2.8
Amplitude ripple 824 ~ 849MHz	dB	-	0.6	1.3
Return loss 824 ~ 849MHz	dB	9.0	12.0	-
Attenuation (Reference level from 0dB)				
D.C. ~ 790MHz	dB	45	55	-
790 ~ 810MHz	dB	22	46	-
869 ~ 894MHz	dB	20	29	-
894 ~ 914MHz	dB	33	43	-
914 ~ 2000MHz	dB	40	51	-
2000 ~ 3000MHz	dB	27	34	-
Rx band suppression 869 ~ 894MHz	dB	20	29	-
Source impedance Z _S	Ω	-	50	-
Load impedance Z _L	Ω	-	50	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

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C. FREQUENCY CHARACTERISTICS: (typical performance at 25°C)

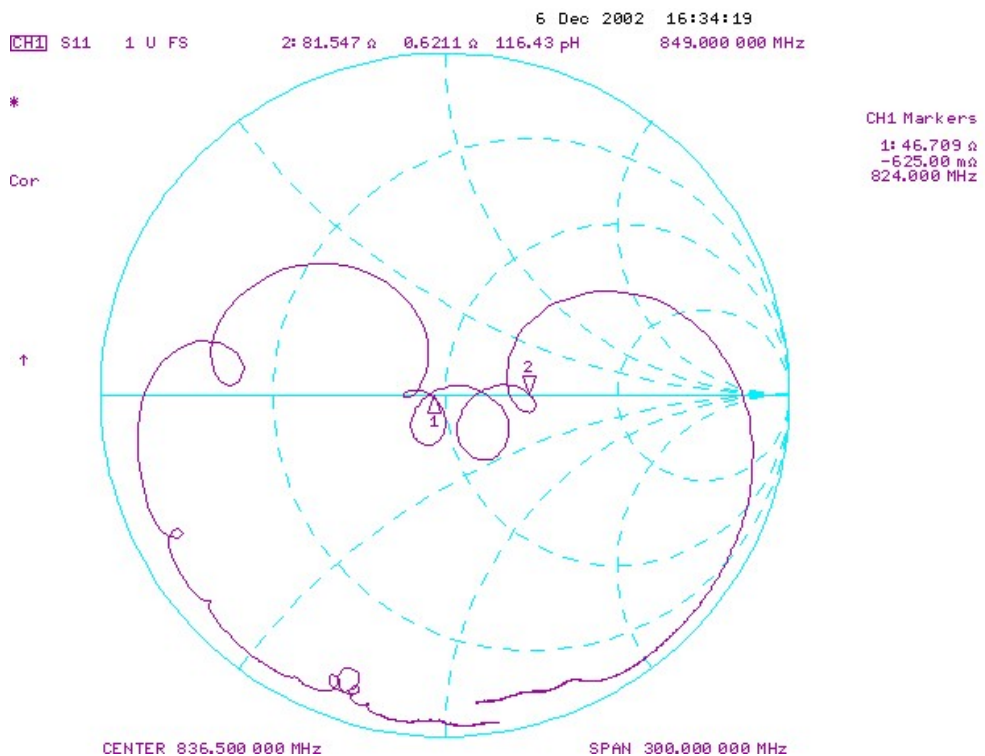


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Reflections Functions: (typical performance at 25°C)

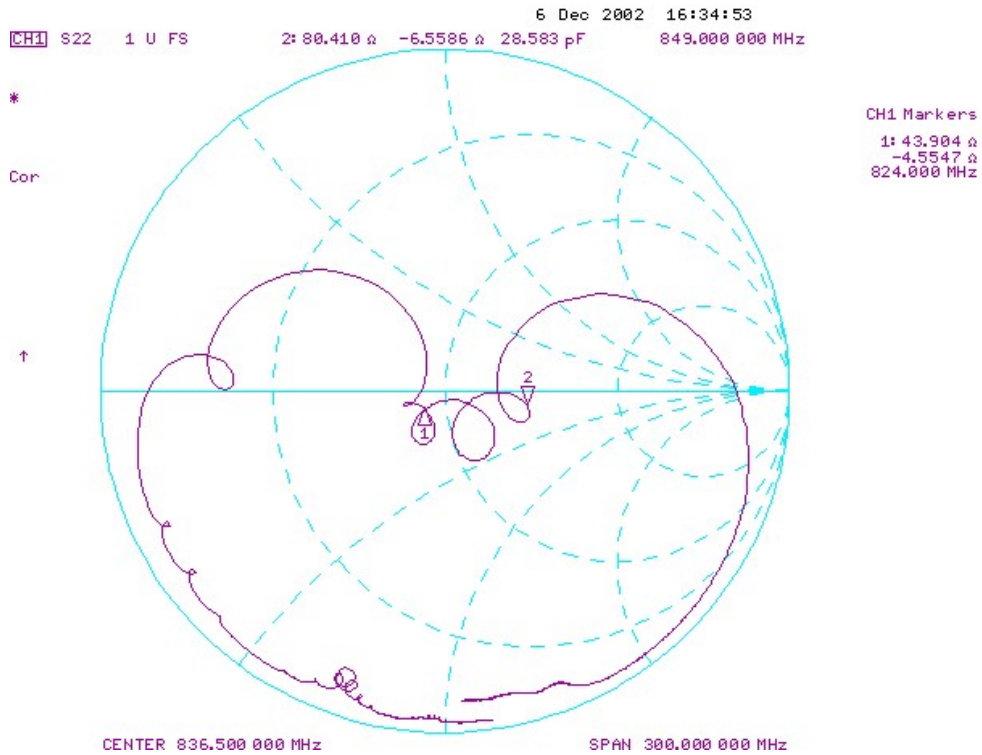
S11



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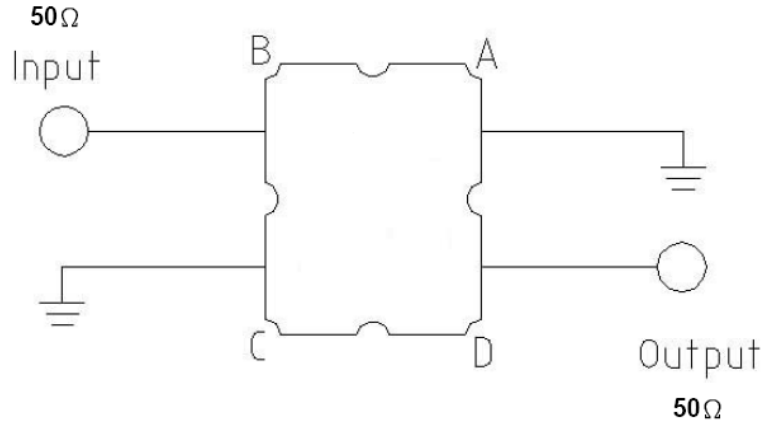
S22



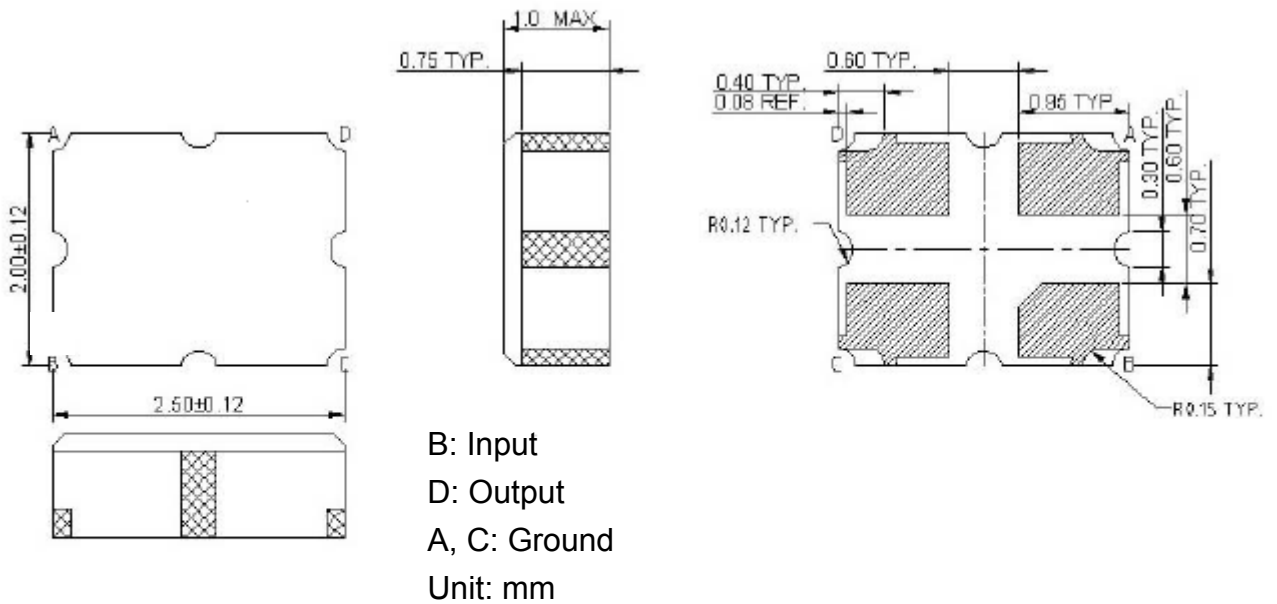
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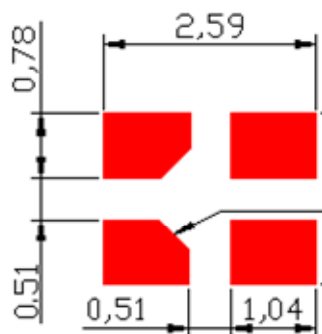
D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



F. PCB FOOTPRINT:

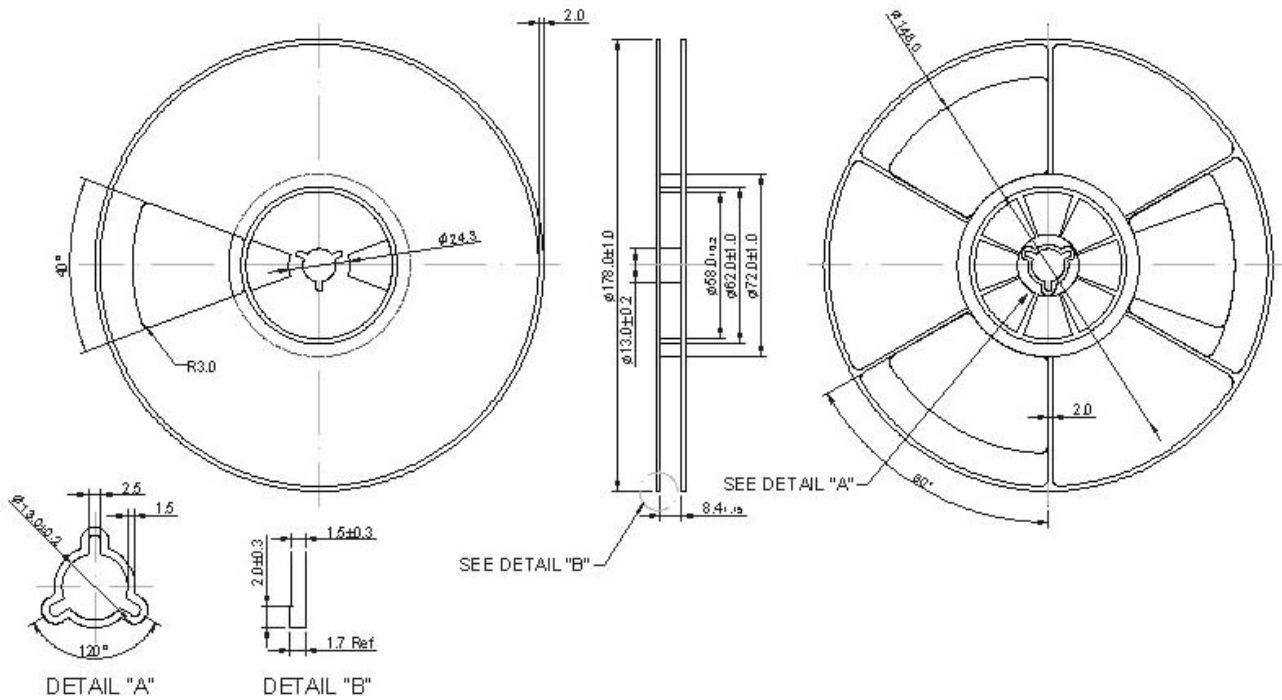


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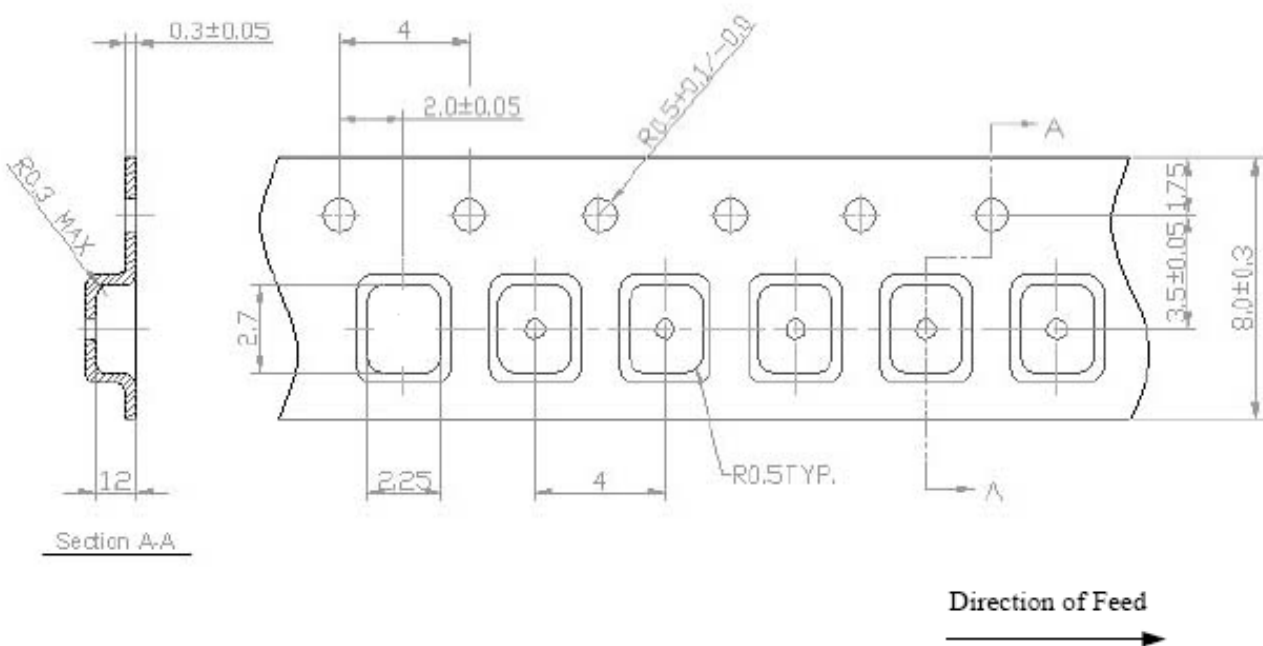
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 250 ±10°C peak (max. 10 sec).
4. Time: 2 times.

