

SAW Filter 1842.50MHz

Model: TA0318A

Part No: MA05900

Rev No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +75°C
2. Storage Temperature: -40°C ~ +85°C

B. ELECTRICAL CHARACTERISTICS:

Singled to Balanced operation

Terminating source impedance: $Z_S = 50\Omega$

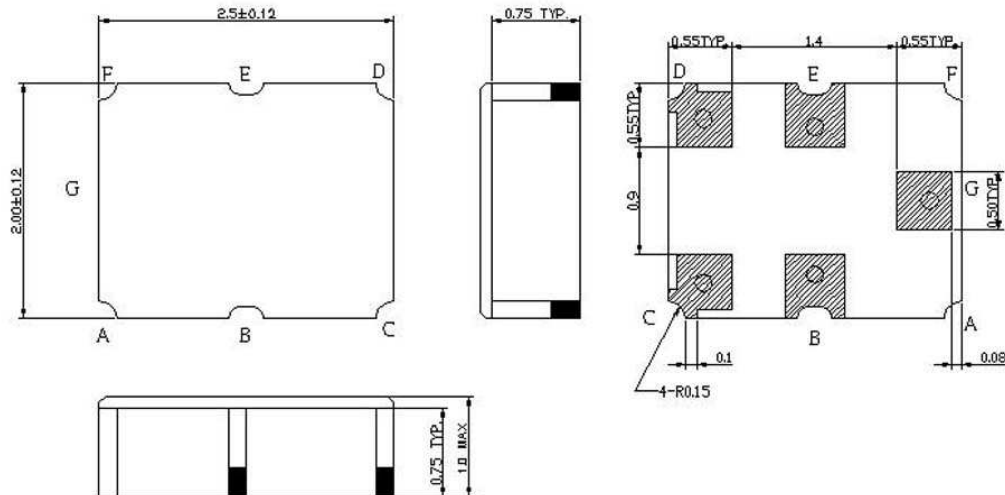
Terminating load impedance: $Z_L = 150\Omega // 22nH$

Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	1842.5	-	-
Insertion loss (1805 ~ 1880 MHz) IL (dB)	-	3.0	4.0	-
Ripple (1805 ~ 1880MHz) (dB)	-	0.8	2.1	-
Input VSWR (1805 ~ 1880MHz)	-	1.9	2.7	-
Output VSWR (1805 ~ 1880MHz)	-	2.2	2.7	-
Attenuation: (Reference level from 0dB)				
0 ~ 1200MHz (dB)	40	49	-	-
1200 ~ 1705MHz (dB)	30	34	-	-
1705 ~ 1785MHz (dB)	9	14	-	-
1920 ~ 1980MHz (dB)	10	22	-	-
1980 ~ 2200MHz (dB)	20	23.5	-	-
2200 ~ 3000MHz (dB)	30	36	-	-
3000 ~ 5000MHz (dB)	40	50	-	-
5000 ~ 6000MHz (dB)	35	43	-	-
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) (1805 ~ 1880MHz) (dB)	-2	0	2	-
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$) (1805 ~ 1880MHz) degree	-12	0	12	-

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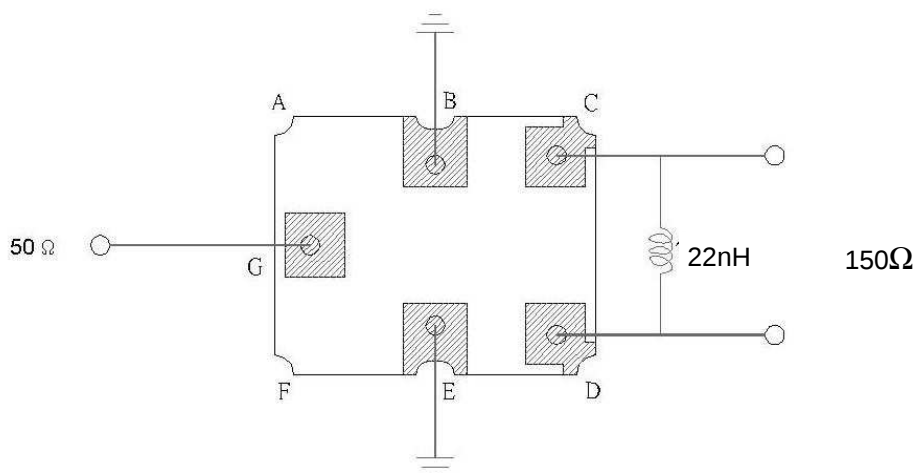
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C. OUTLINE DRAWING:



G: Unbalance input
 C, D: Balance output
 B, E: Ground
 Unit: mm

D. MEASUREMENT CIRCUIT:

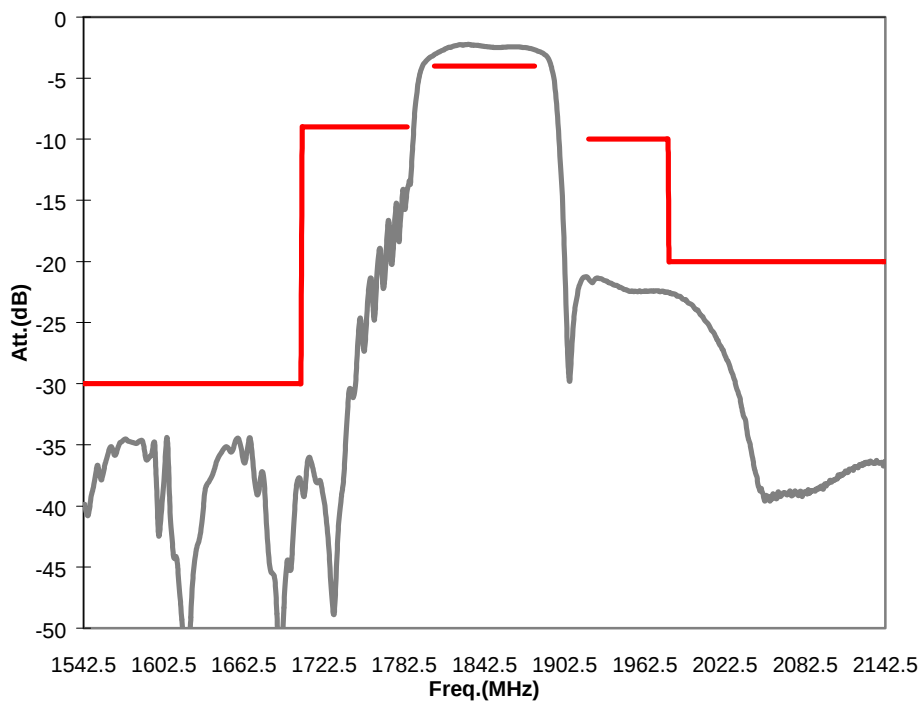


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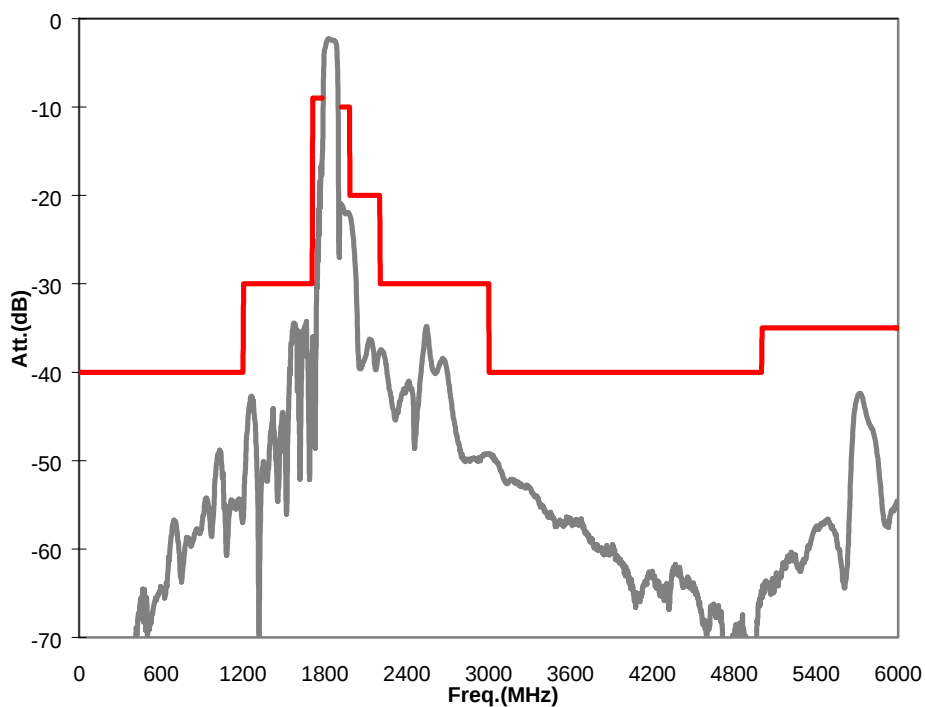
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E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25°C)



2. (wideband)

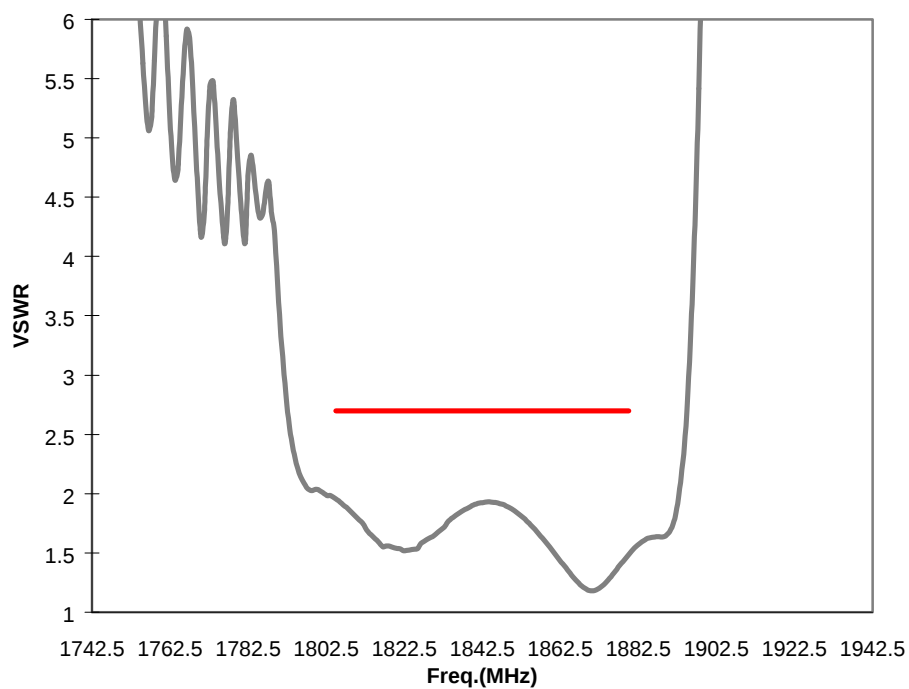


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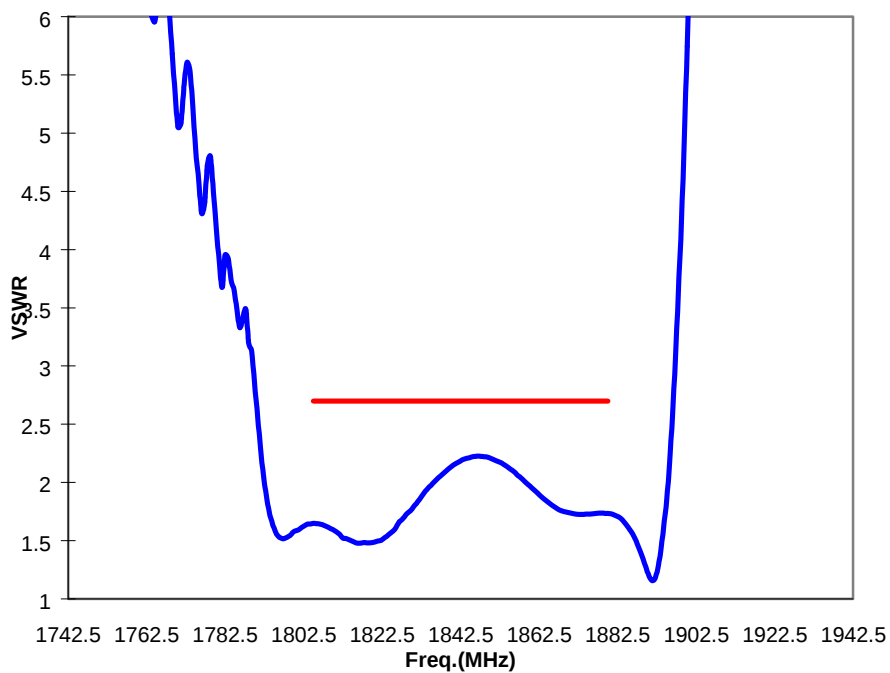
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3. VSWR (25°C)

Unbalance Input



Balance Output

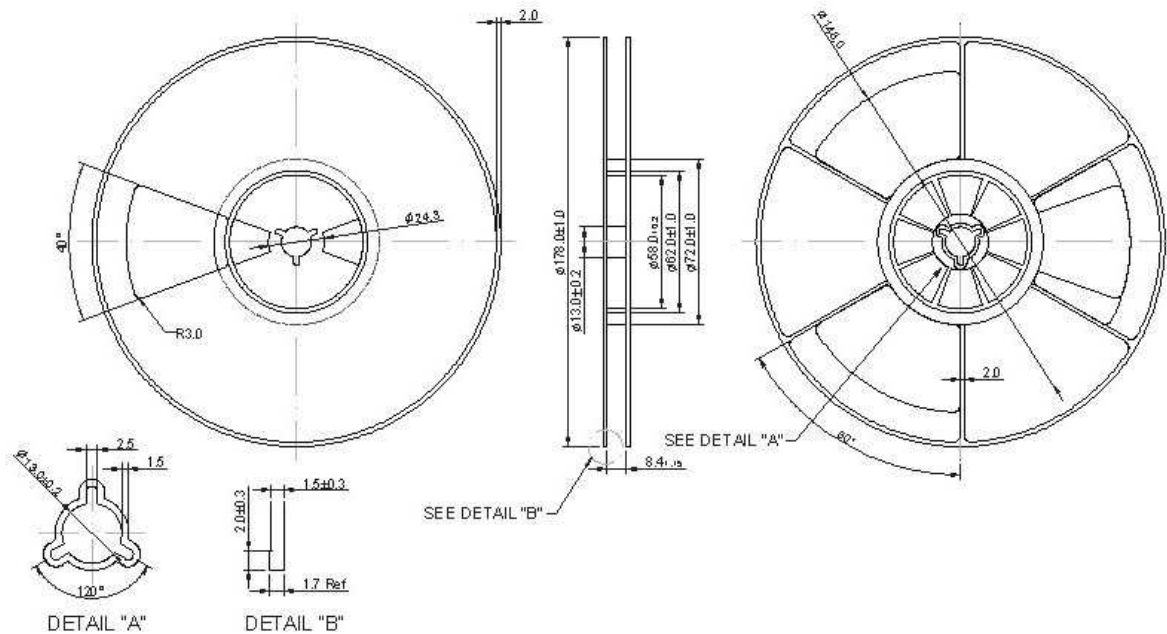


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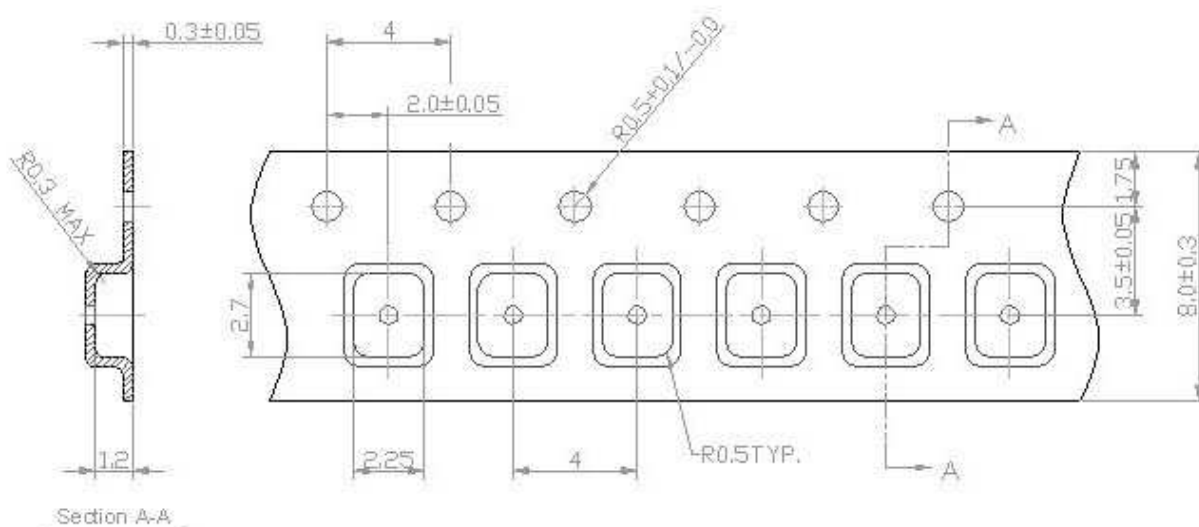
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F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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G. REFLOW PROFILE:

1. Preheating shall be fixed at 140 ~ 160°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 200°C for 50 ~ 60 seconds and at 230 ± 10°C peak.

