

SAW Filter 2140.0MHz
Part No: MA08918

Model: TA0384A
Rev No: 2

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +85°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: $Z_L = 200\Omega // 18nH$

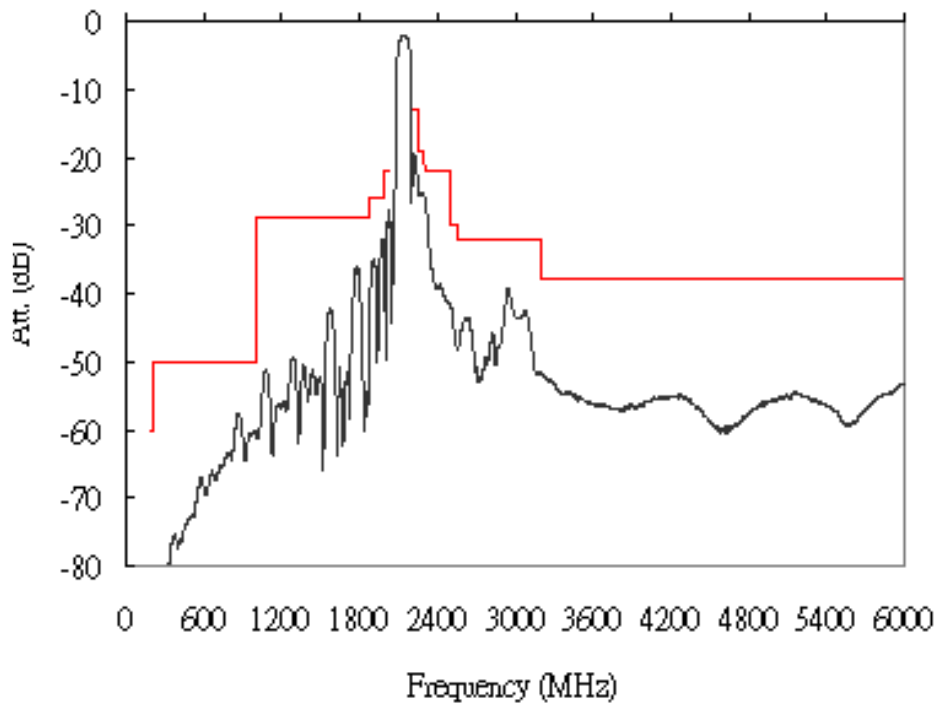
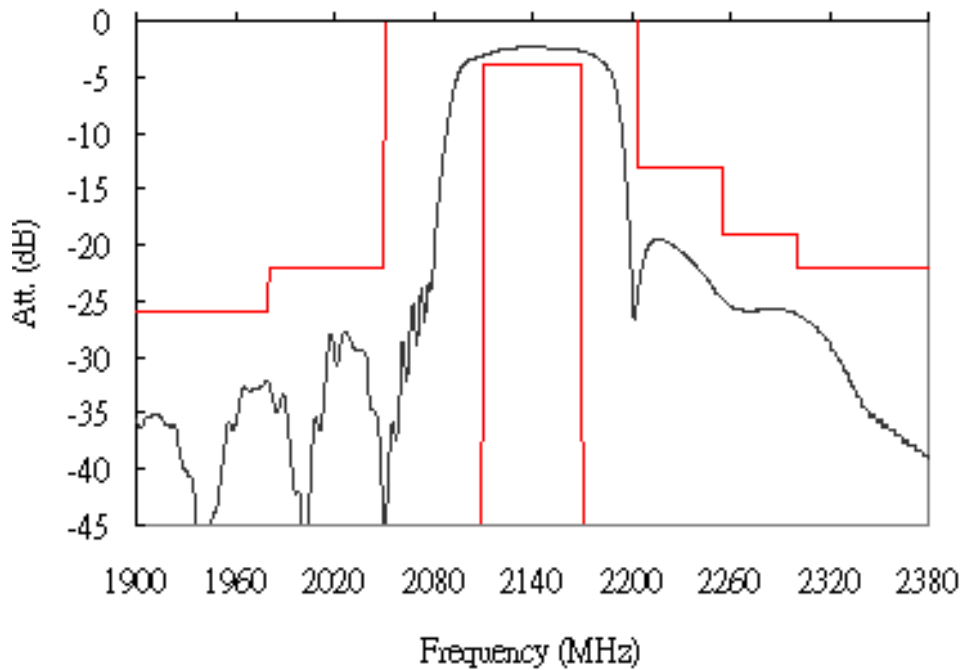
Item	Value			Unit
	Min.	Typ.	Max.	
Center frequency F_c	-	2140	-	MHz
Insertion loss 2110 ~ 2170MHz IL	-	3.1	4.1	dB
Ripple 2110 ~ 2170MHz	-	0.9	1.8	dB
Input VSWR 2110 ~ 2170MHz	-	1.7	2.4	
Input VSWR 2110 ~ 2170MHz	-	1.8	2.4	
Attenuation: (Reference level from 0dB)				
180 ~ 200MHz	60	85	-	dB
200 ~ 1000MHz	50	58	-	dB
1000 ~ 1880MHz	29	36	-	dB
1880 ~ 1980MHz	26	32	-	dB
1980 ~ 2050MHz	22	28	-	dB
2210 ~ 2255MHz	13	19	-	dB
2255 ~ 2300MHz	19	25	-	dB
2300 ~ 2490MHz	22	26	-	dB
2490 ~ 2550MHz	30	39	-	dB
2550 ~ 3200MHz	32	36	-	dB
3200 ~ 6000MHz	38	49	-	dB
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) 2110~2170MHz	-2.9	0	1.4	dB
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$)2110~2170MHz	-10	0	15	°

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C. FREQUENCY CHARACTERISTICS:

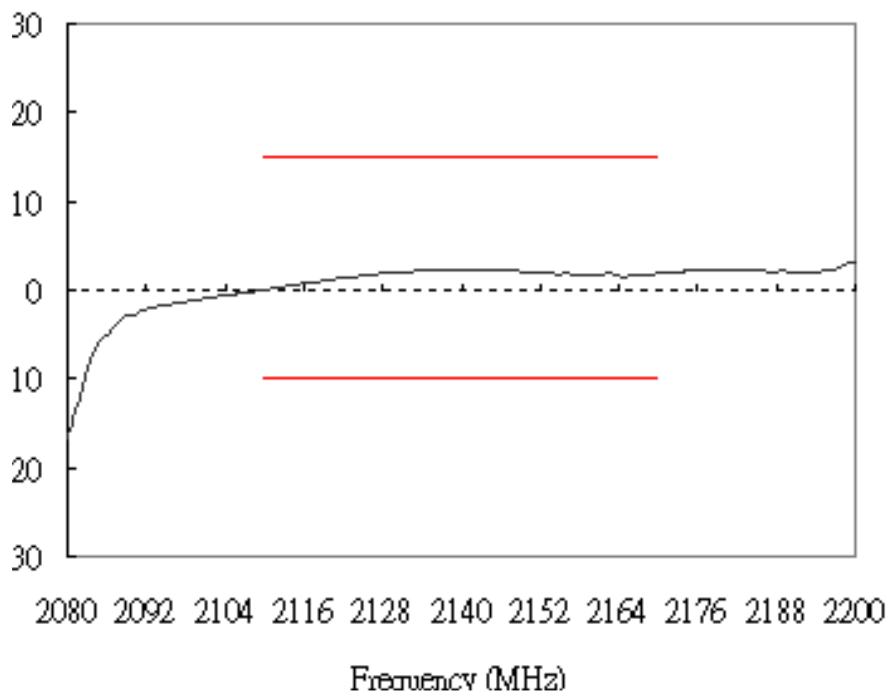
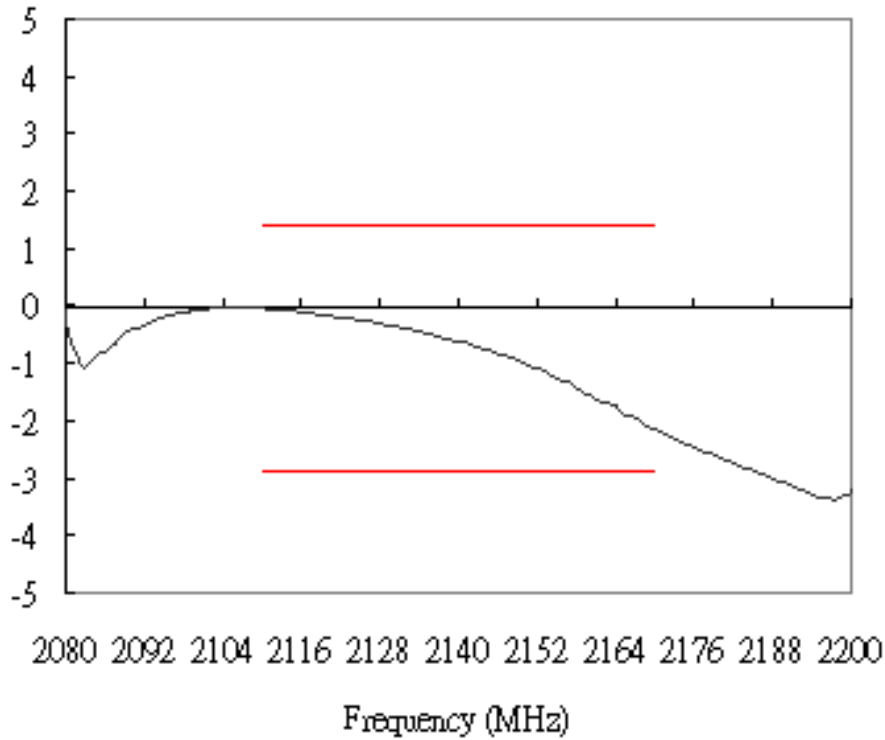
1. Transfer Function



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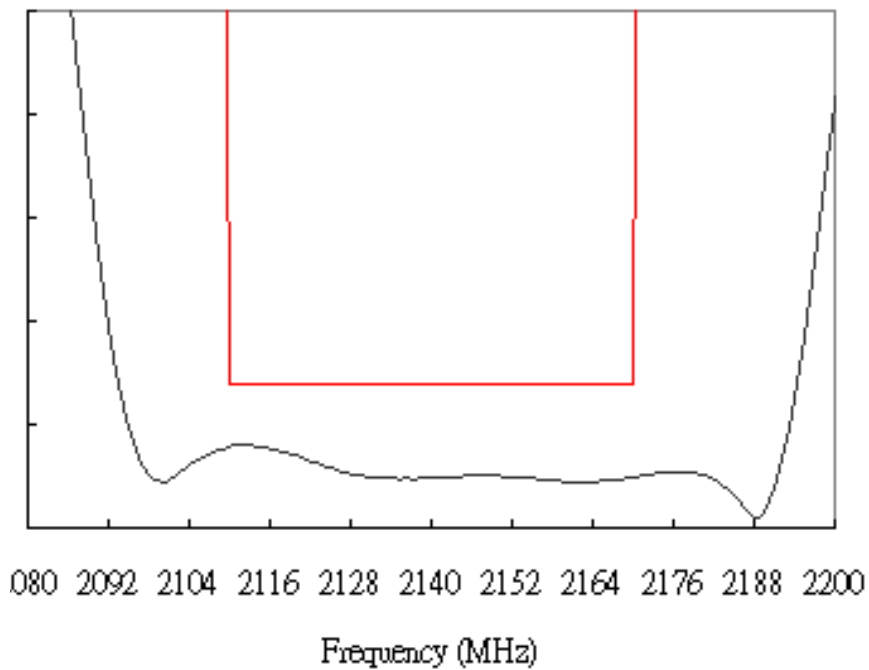
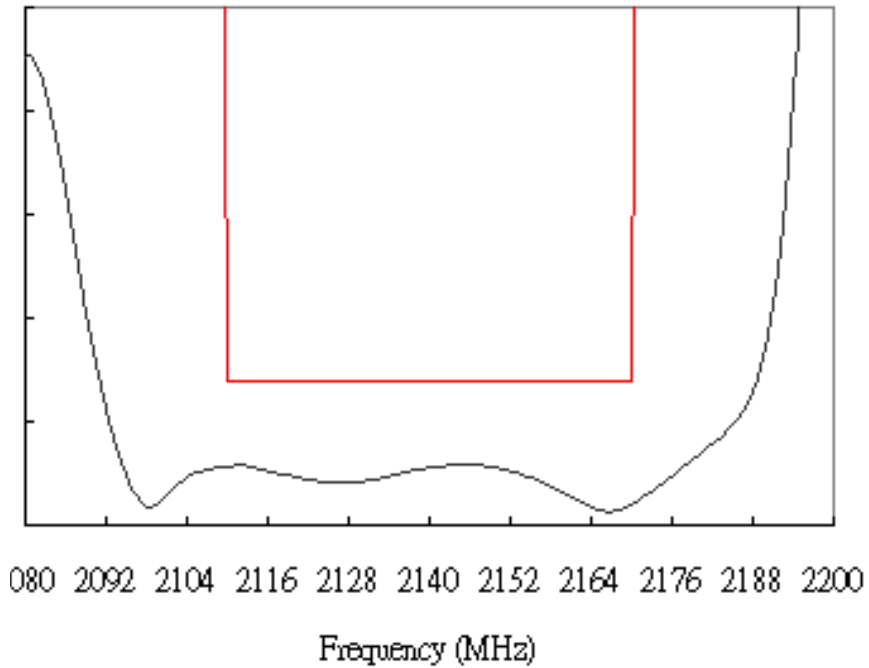
2. Amplitude/Phase Balance



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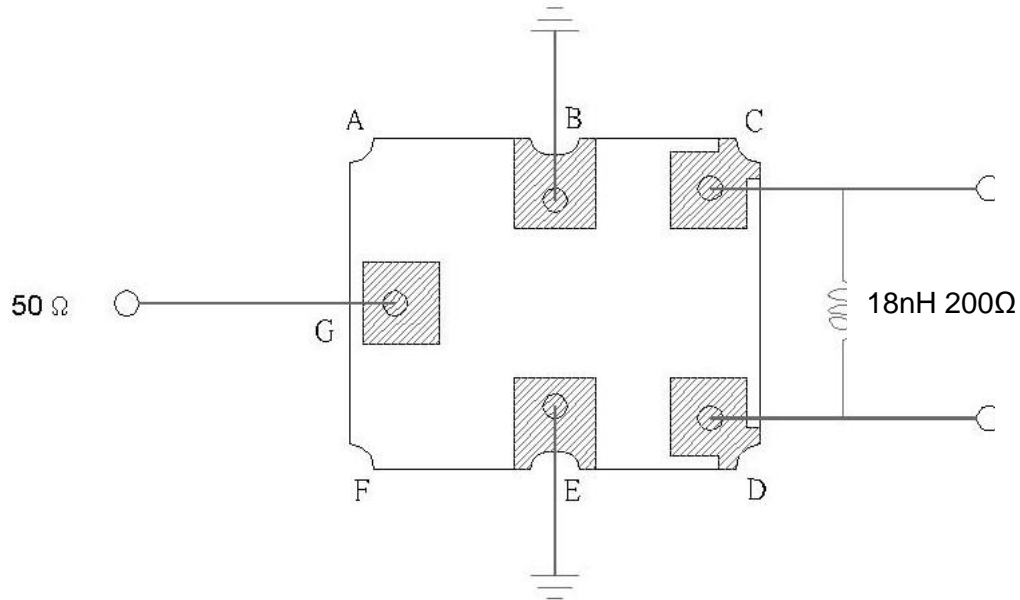
3. Reflection Function



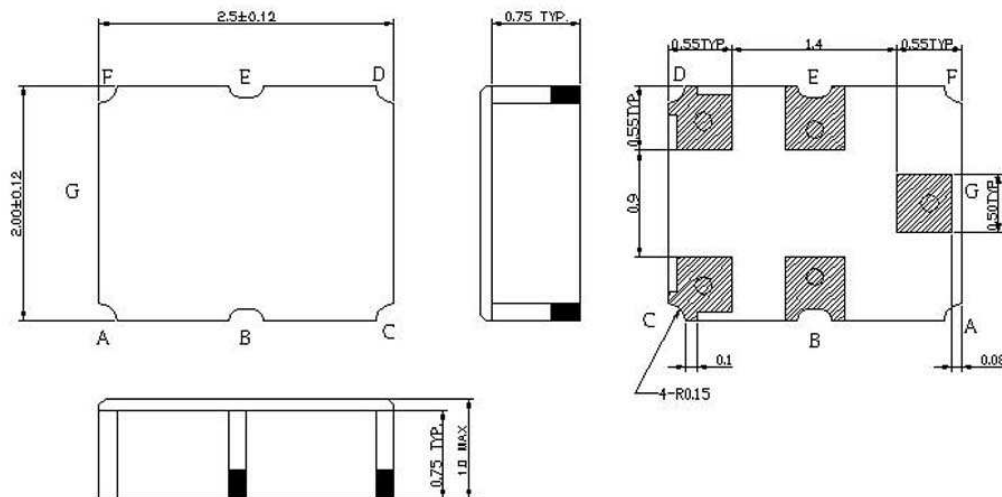
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D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



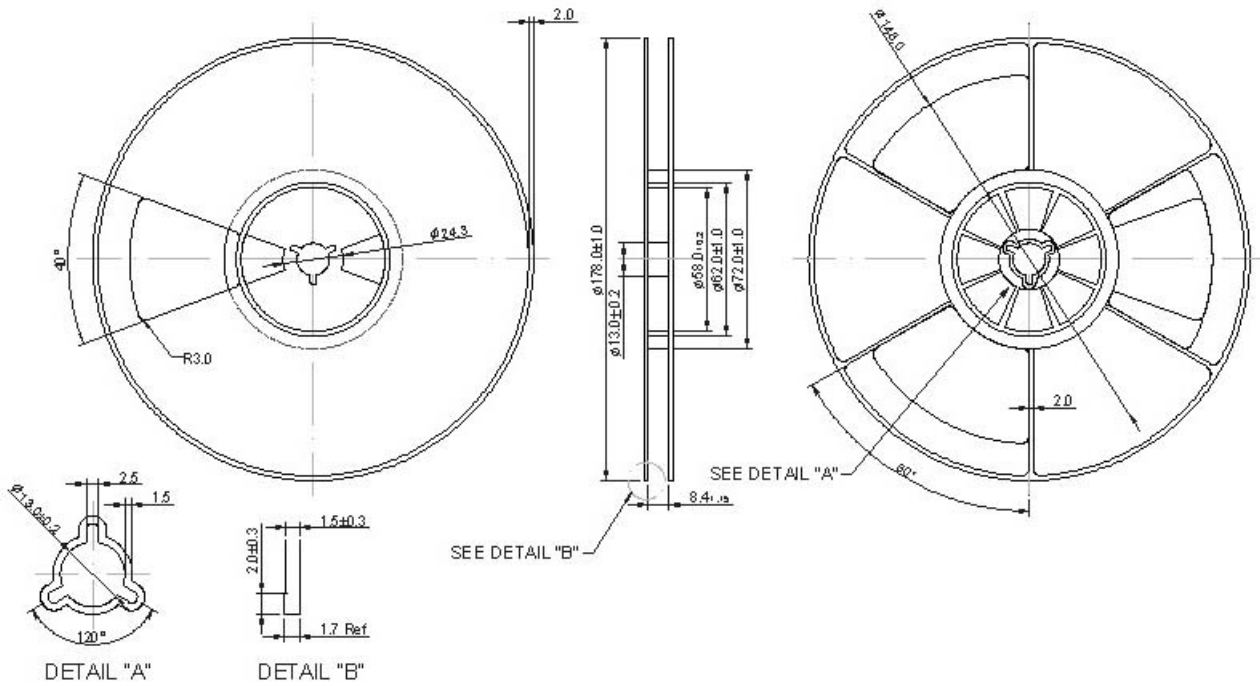
G: Unbalance input
 C, D: Balance output
 A, B, E, F: Ground
 Unit: mm

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F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

