

SAW Filter 942.5MHz

Model: TA0230A

Part No: MA06221

Rev No: 2

A. MAXIMUM RATING:

1. Operating Temperature: -10°C ~ +75°C
2. Storage Temperature: -40°C ~ +85°C

B. CHARACTERISTICS:

Singled to Balanced operation

Terminating source impedance: $Z_S = 50\Omega$

Terminating load impedance: $Z_L = 150\Omega // 50nH$

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c (MHz)	-	942.5	-	-
Insertion loss (925 ~ 960MHz) IL (dB)	-	2.8	3.8	-
Ripple (925 ~ 960MHz) (dB)	-	1.0	2.0	-
VSWR (925 ~ 960MHz)	-	2.0	2.5	-
Attenuation: (Reference level from 0dB)				
0 ~ 880MHz (dB)	50	52	-	-
880 ~ 905MHz (dB)	28	44	-	-
905 ~ 915MHz (dB)	16	27	-	-
980 ~ 1000MHz (dB)	20	27	-	-
1000 ~ 1050MHz (dB)	28	32	-	-
1050 ~ 1500MHz (dB)	50	54	-	-
1500 ~ 2130MHz (dB)	45	56	-	-
2130 ~ 3000MHz (dB)	40	55	-	-
3000 ~ 4050MHz (dB)	35	52	-	-
4050 ~ 5700MHz (dB)	23	36	-	-
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) (925 ~ 960MHz) (dB)	-1.5	0	1.5	
Output phase balance ($\Phi(S_{31}) - \Phi(S_{21}) + 180^\circ$) (925 ~ 960MHz) degree	-12	0	12	

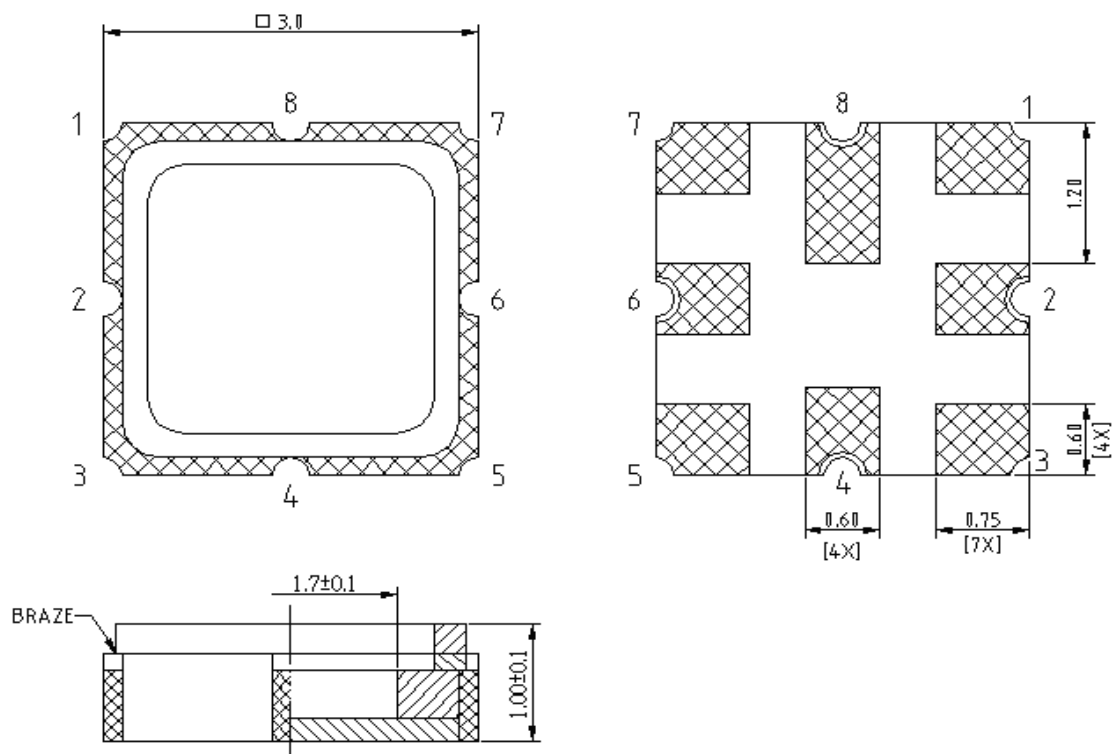
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C. OUTLINE DRAWING:



2: Input unbalanced

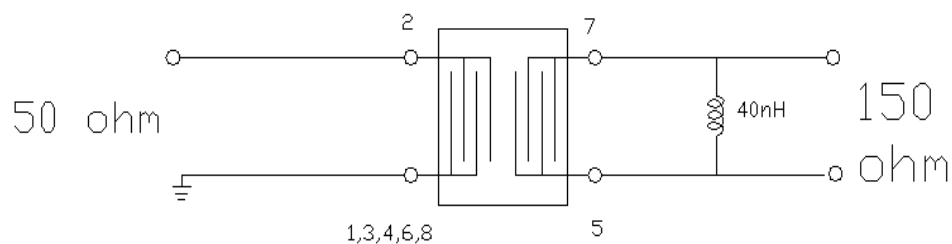
1, 3: Input ground

5, 7: Output balanced

1, 3, 4, 8, 6: case ground

Unit: mm

D. MEASUREMENT CIRCUIT:

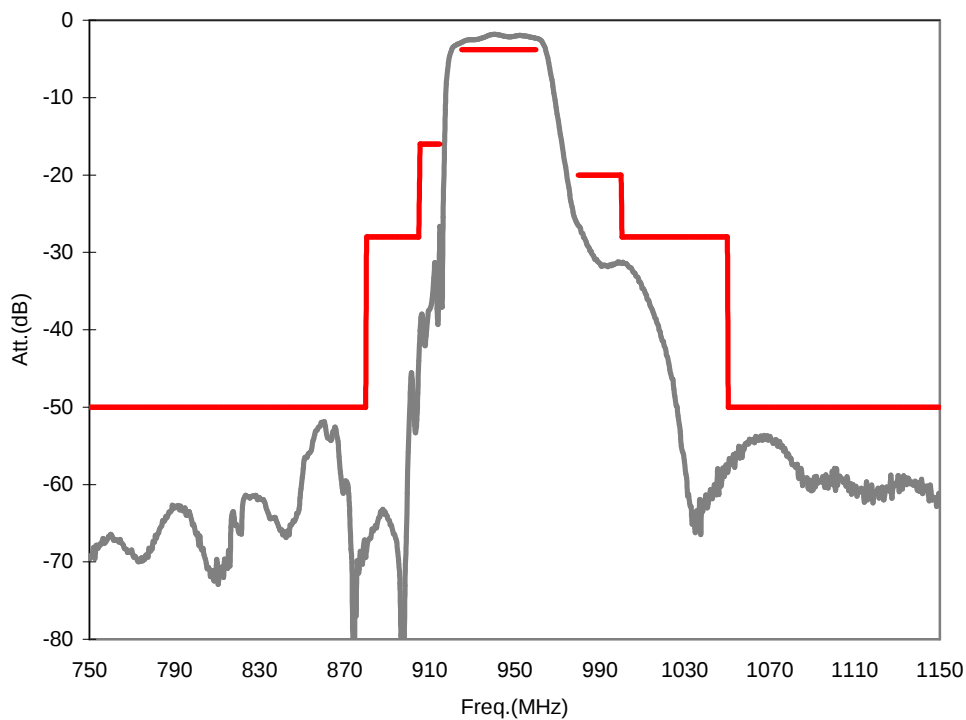


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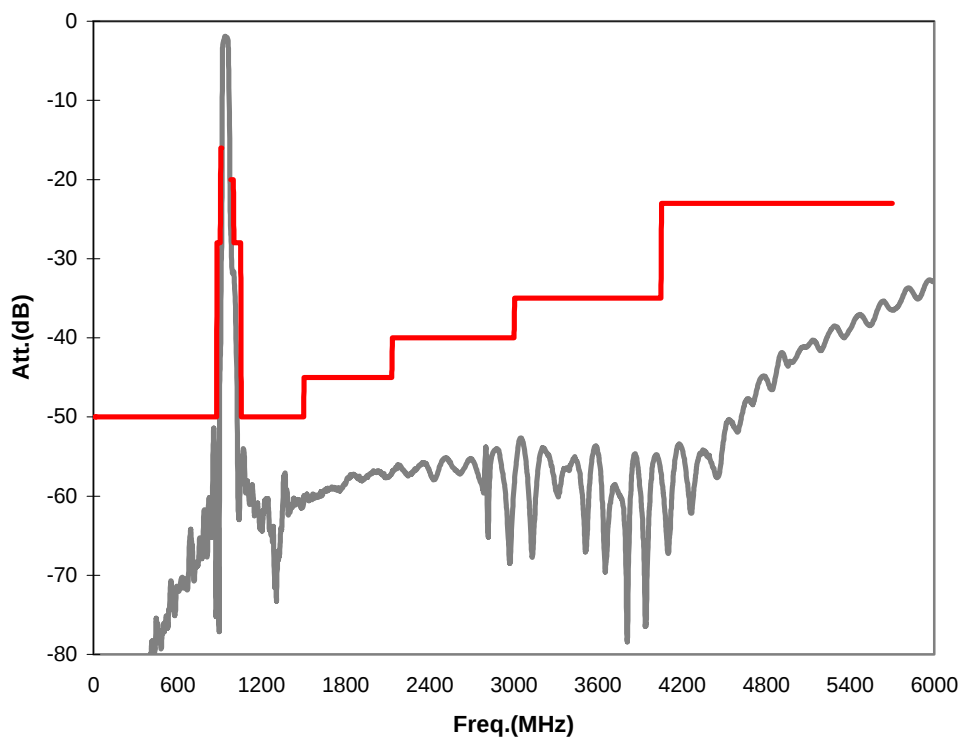
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E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25°C)



2. wideband

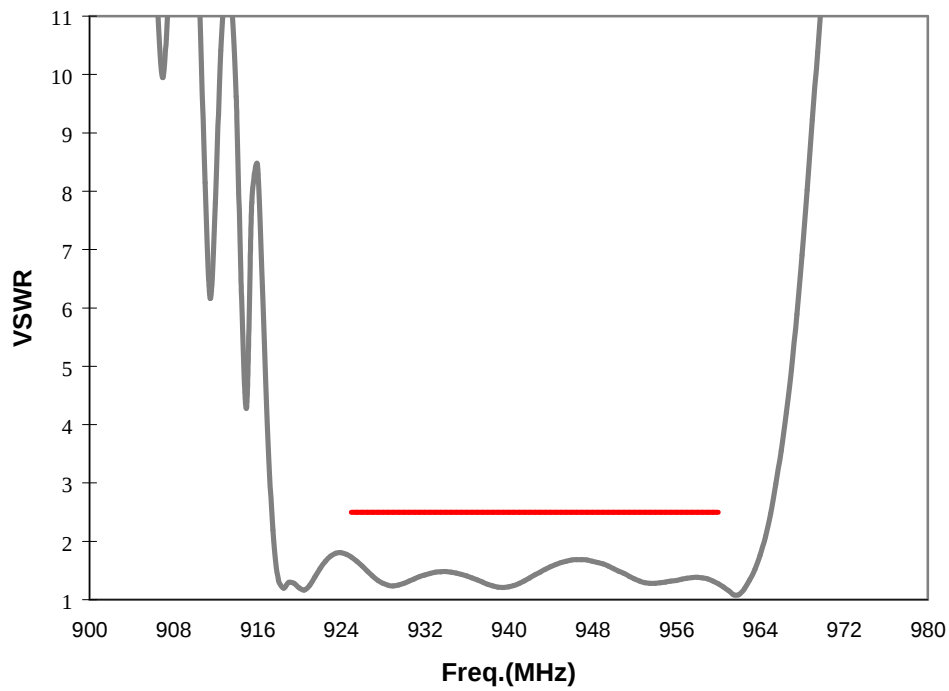


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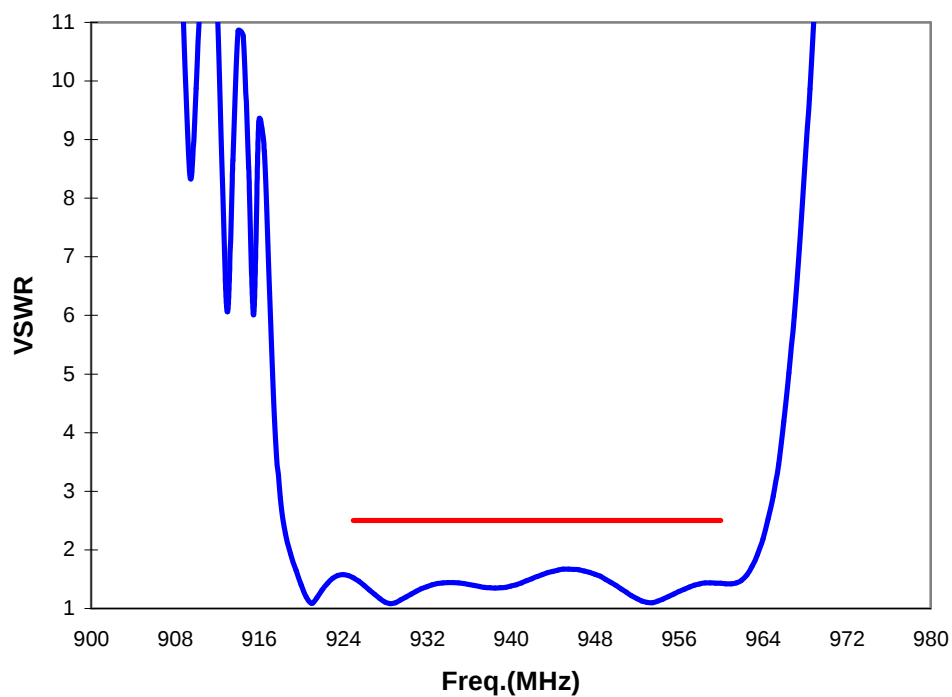
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3. VSWR (25°C)

Input



Output

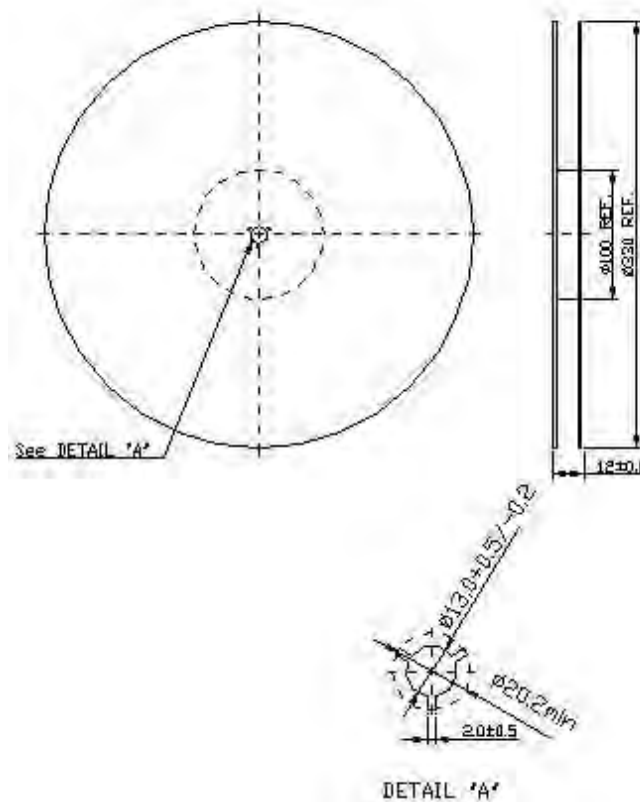


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F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

