

SAW Filter 940.50MHz

Model: TA0390A

Part No: MA07334

Rev No: 1

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: $Z_S = 50\Omega$

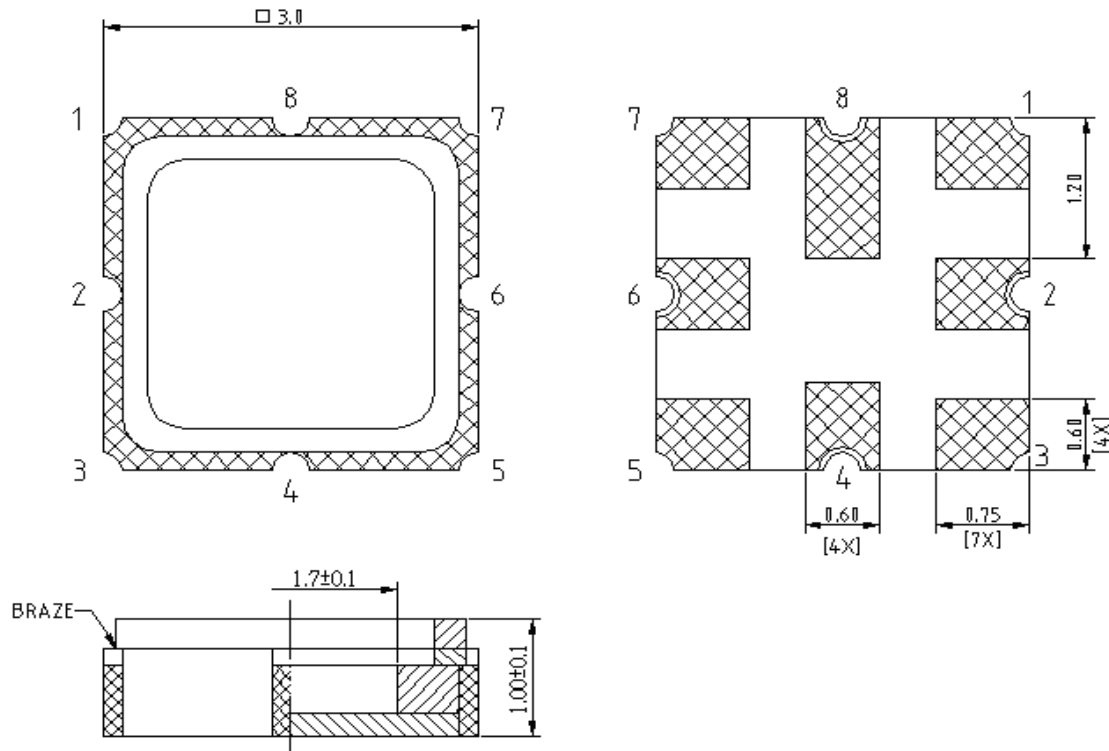
Terminating load impedance: $Z_L = 150\Omega // 50nH$

Characteristics	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c (MHz)	-	940.5	-	-
Insertion loss (921 ~ 960MHz) IL (dB)	-	3.2	4.3	-
Ripple (921 ~ 960MHz) (dB)	-	1.3	2.3	-
VSWR (921 ~ 960MHz)	-	1.8	2.5	-
Attenuation: (Reference level from 0dB)				
0 ~ 880MHz (dB)	50	53	-	-
880 ~ 900MHz (dB)	28	44	-	-
900 ~ 910 MHz (dB)	16	36	-	-
980 ~ 1000MHz (dB)	20	27	-	-
1000 ~ 1050MHz (dB)	28	31	-	-
1050 ~ 1500MHz (dB)	50	54	-	-
1500 ~ 2130MHz (dB)	45	62	-	-
2130 ~ 3000MHz (dB)	40	57	-	-
3000 ~ 4050MHz (dB)	35	47	-	-
4050 ~ 5700MHz (dB)	23	37	-	-
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance($ S_{31} / S_{21} $) (921~960MHz)(dB)	-1.8	0	1.8	
Output phase balance($\phi(S_{31})-\phi(S_{21})+180^\circ$)(921~960MHz) $^\circ$	-12	0	12	

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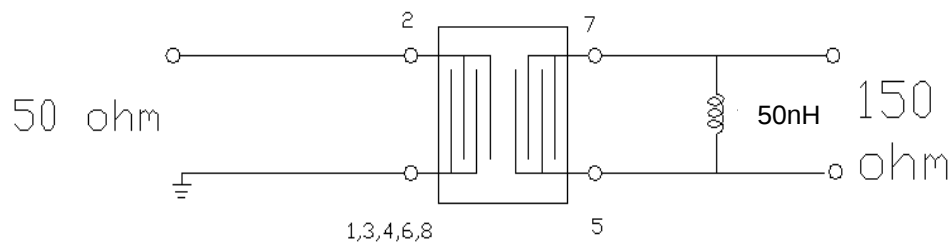
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C. OUTLINE DRAWING:



2: Input unbalanced
 1, 3: Input ground
 5, 7: Output balanced
 1, 3, 4, 8, 6: Case ground
 Unit: mm

D. MEASUREMENT CIRCUIT:

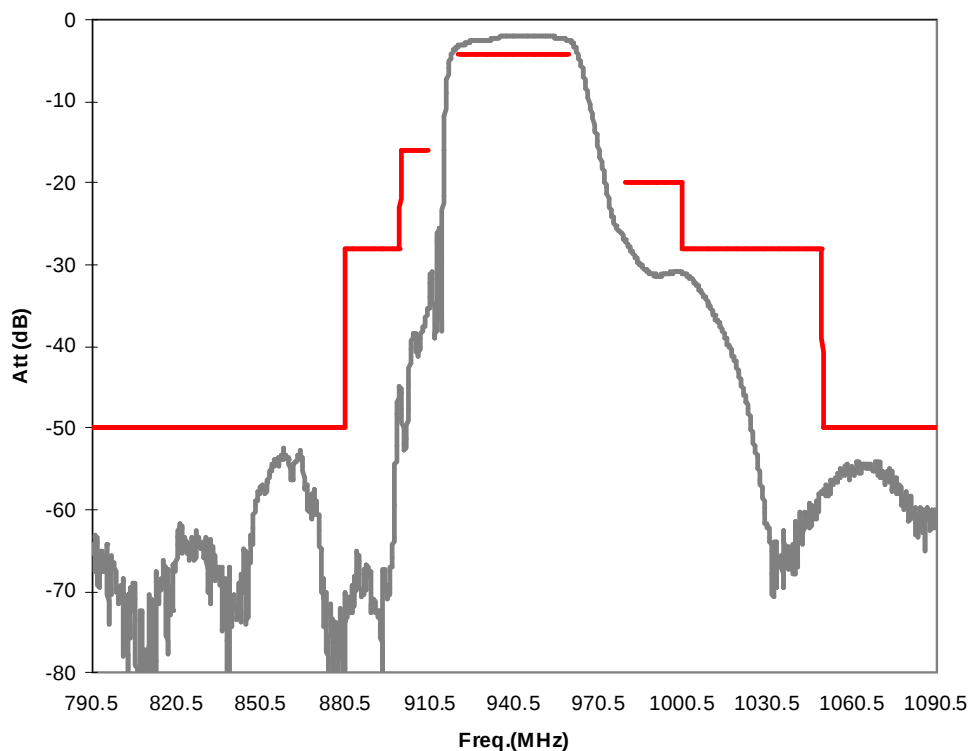


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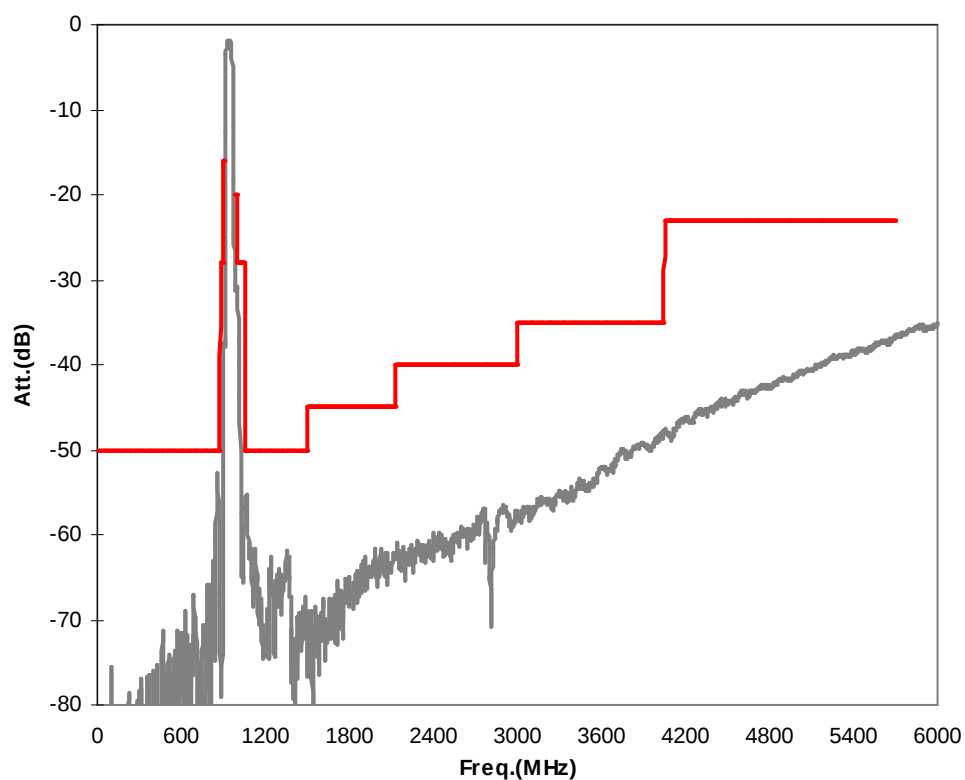
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E. FREQUENCY CHARACTERISTICS:

1. Transfer function (25°C)



2. Wideband

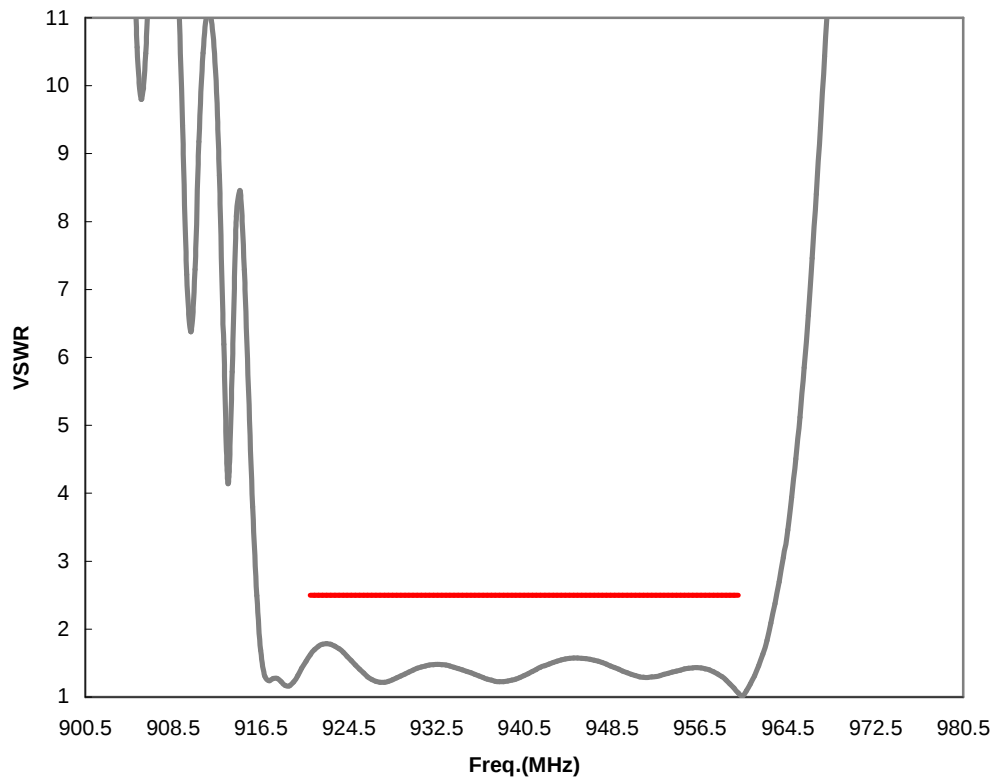


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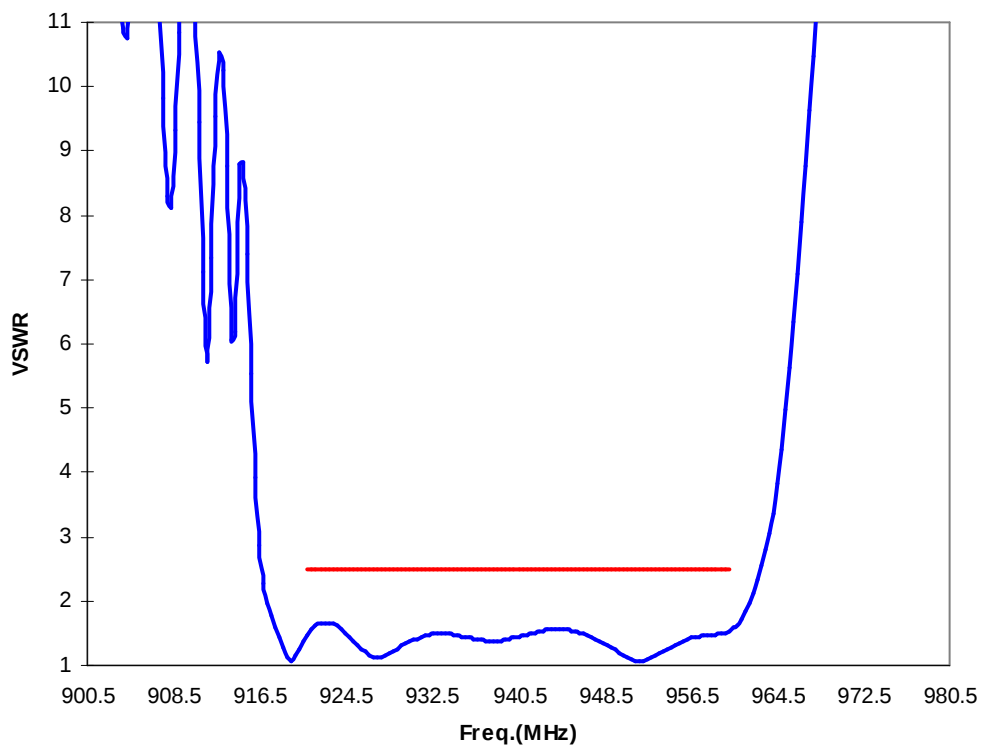
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3. VSWR (25°C)

Input



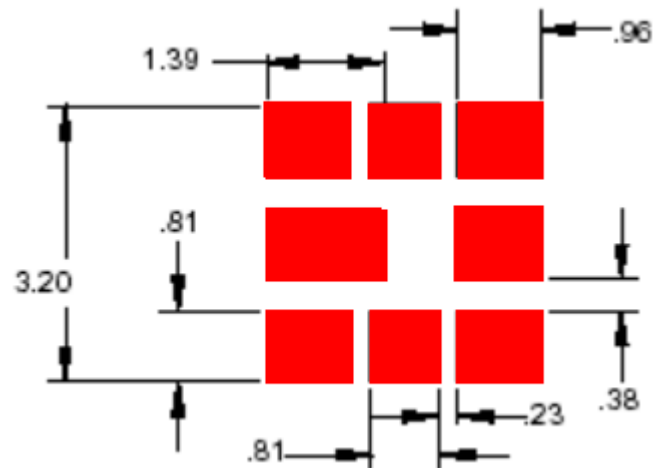
Output



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F. PCB FOOTPRINT:



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