

400MHz SAW Filter

Model: TB0464A

Part No: MA09471

REV NO.: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	Note
Center frequency, Fc	MHz	-	400	-	-
Max. Insertion loss (Fc ± 75kHz) IL (excluding loss in matching elements)	dB	-	4	6.0	-
Max. Insertion loss (Fc ± 75kHz) IL (including loss in matching elements)	dB	-	5	7.5	-
Passband Ripple (Fc ± 75kHz)	dB	-	0.4	2	-
Group Delay Ripple (Fc ± 75kHz)	µsec	-	0.6	2	-
Relative Attenuation (relative to IL)					
Fc - 100 to Fc - 1.5MHz	dB	35	63	-	-
Fc - 1.5 to Fc - 0.8MHz	dB	20	63	-	-
Fc - 0.8 to Fc - 0.6MHz	dB	10	65	-	-
Fc - 0.6 to Fc - 0.4MHz	dB	7	32	-	-
Fc + 0.4 to Fc + 0.6MHz	dB	7	32	-	-
Fc + 0.6 to Fc + 0.8MHz	dB	10	58	-	-
Fc + 0.8 to Fc + 1.5MHz	dB	20	58	-	-
Fc + 1.5 to Fc + 100MHz	dB	35	55	-	-
Temperature coefficient of frequency TCf		-0.036 ppm/K ²			

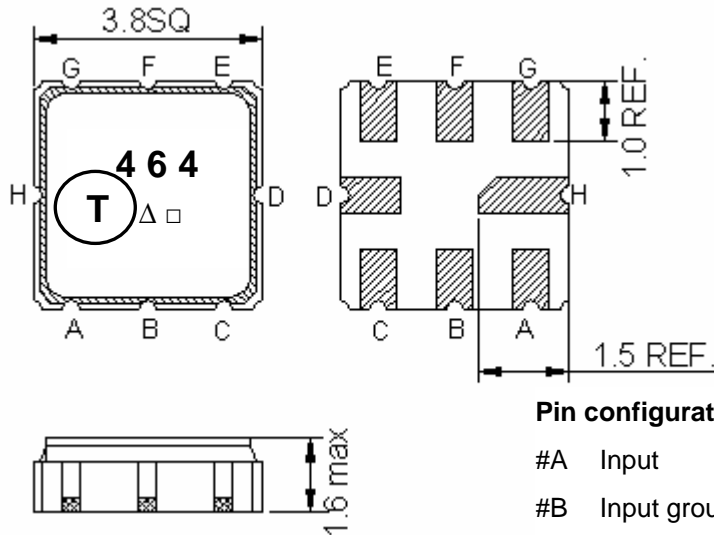
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C. OUTLINE DRAWING:



Pin configuration

- #A Input
- #B Input ground or balanced input
- #E Output
- #F Output ground or balanced output
- #C, D, G, H To be grounded

△ Year code

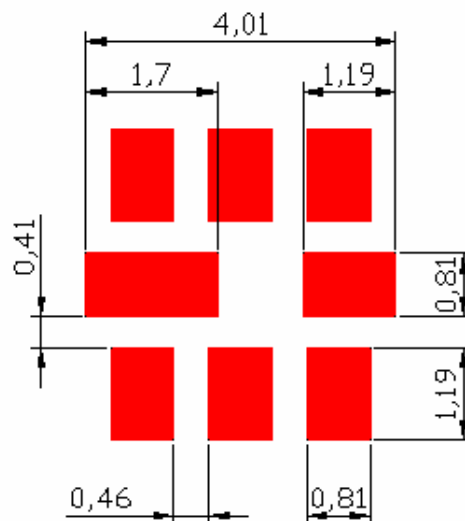
□ Date code

Unit mm

Product Year Code

Year	2001 2005	2002 2006	2003 2007	2004 2008
Product Code	B	b	<u>B</u>	<u>b</u>

D. PCB FOOTPRINT:



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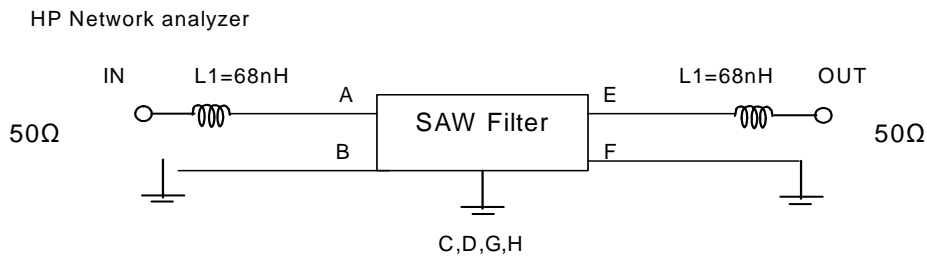
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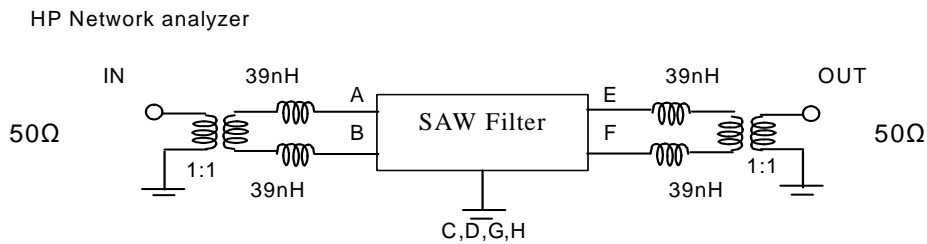
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E. MEASUREMENT CIRCUIT:

50 Ohm Test circuit (single-ended/single-ended)



50 Ohm Test circuit (balanced-ended/balanced-ended)



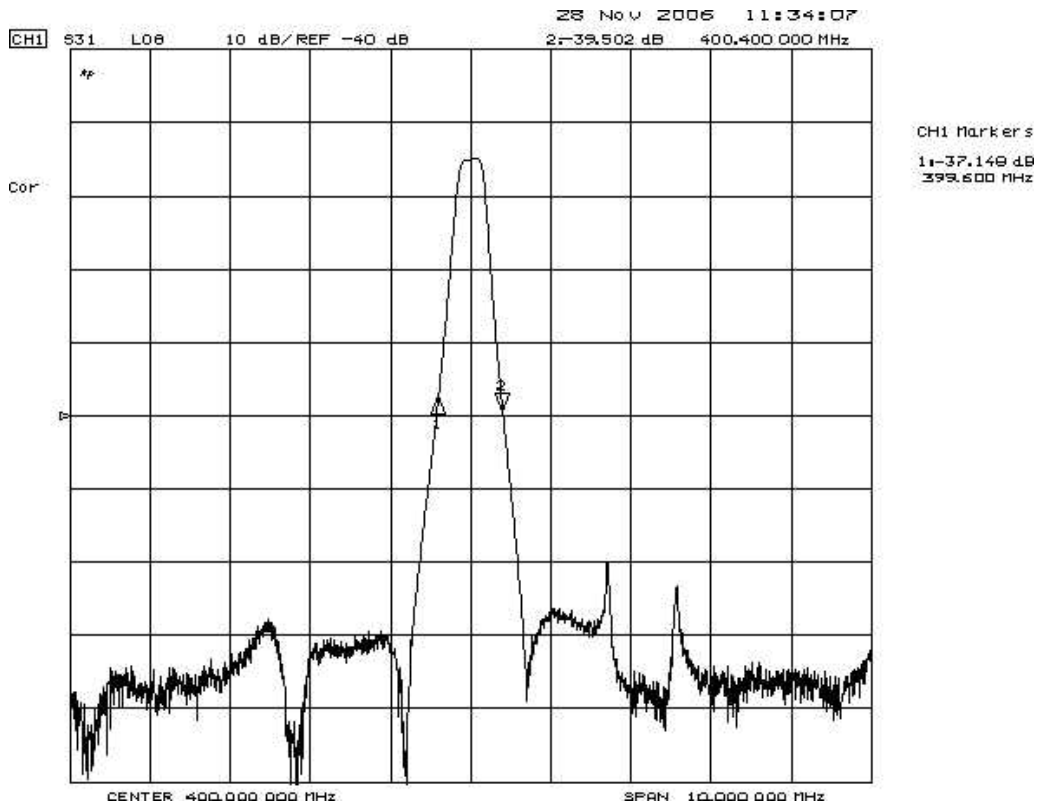
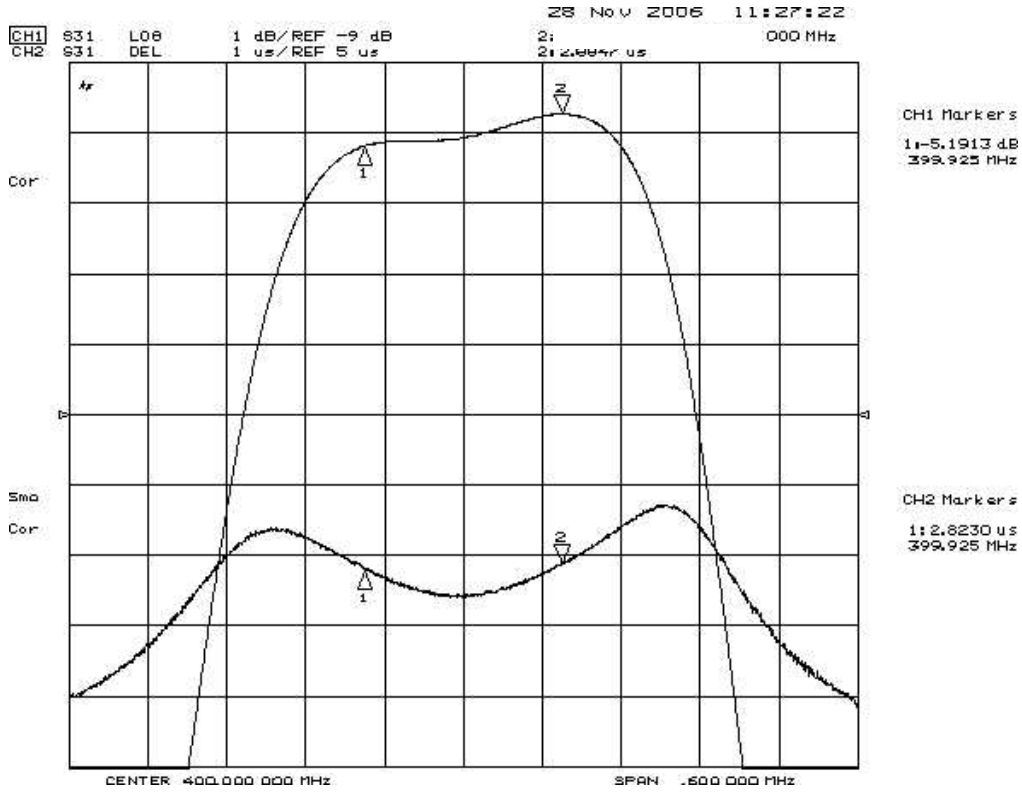
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F. FREQUENCY CHARACTERISTICS:



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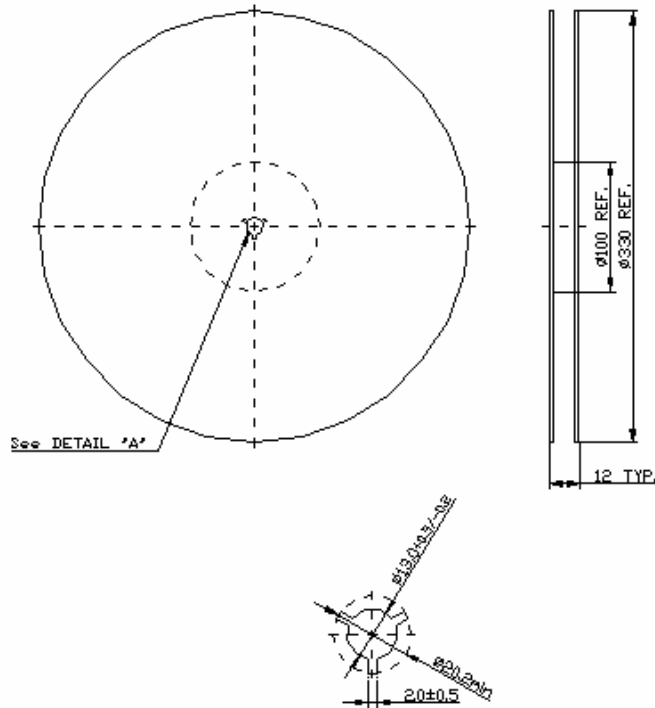
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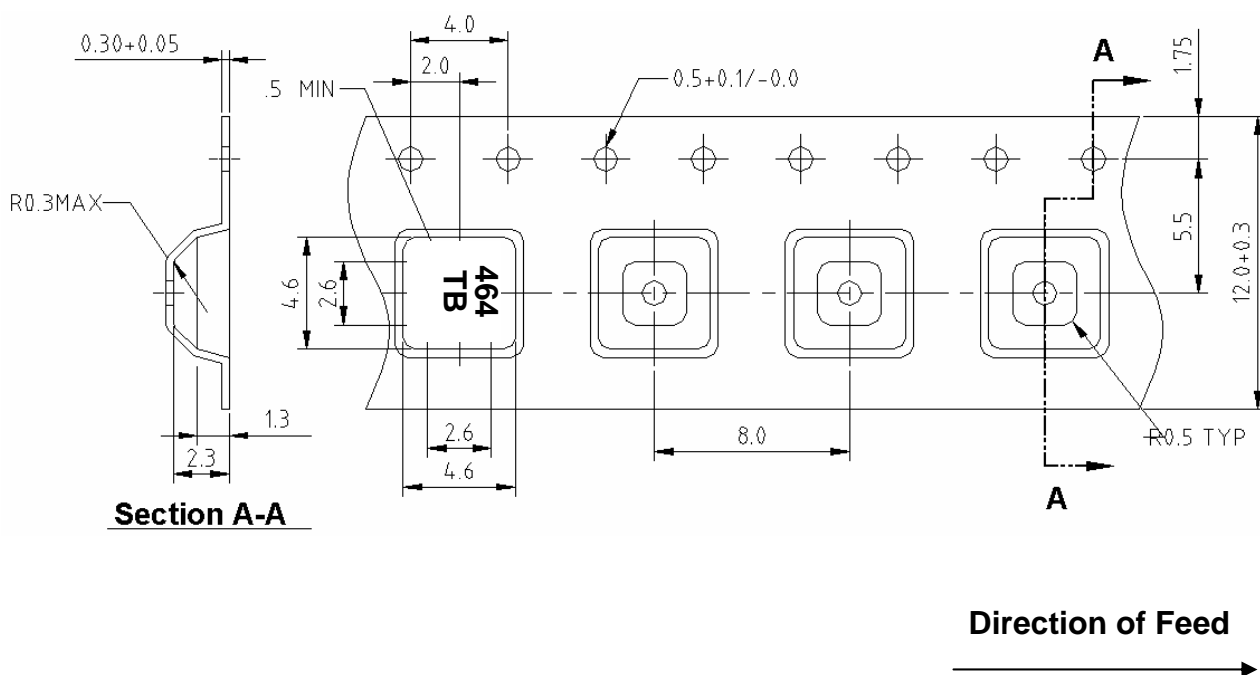
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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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H. RECOMMENDED REFLOW PROFILE:

