

400.0MHz SAW Filter

Model: TB0448A

Part No: MA09985

REV NO.: 1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
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.	Typ.	Max.	Note
Center frequency, Fc	MHz	-	400	-	-
Max. Insertion loss (Fc ± 75 kHz) IL (excluding loss in matching elements)	dB	-	4.2	6.0	-
Max. Insertion loss (Fc ± 75 kHz) IL (including loss in matching elements)	dB	-	5.2	7.5	-
Passband Ripple (Fc ± 75 kHz)	dB	-	0.3	2	-
Group Delay Ripple (Fc ± 75 kHz)	µsec	-	0.6	2	-
Relative Attenuation (relative to IL)					
Fc - 100 to Fc - 1.5 MHz	dB	35	58	-	-
Fc - 1.5 to Fc - 0.8 MHz	dB	20	58	-	-
Fc - 0.8 to Fc - 0.6 MHz	dB	10	60	-	-
Fc - 0.6 to Fc - 0.4 MHz	dB	7	33	-	-
Fc + 0.4 to Fc + 0.6 MHz	dB	7	33	-	-
Fc + 0.6 to Fc + 0.8 MHz	dB	10	55	-	-
Fc + 0.8 to Fc + 1.5 MHz	dB	20	55	-	-
Fc + 1.5 to Fc + 100 MHz	dB	35	52	-	-
Temperature coefficient of frequency TCf		-0.036 ppm/K ²			

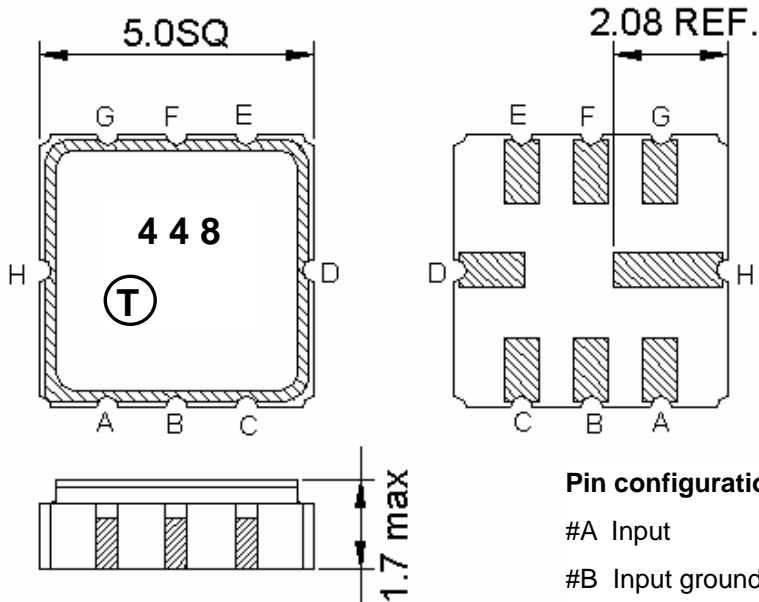
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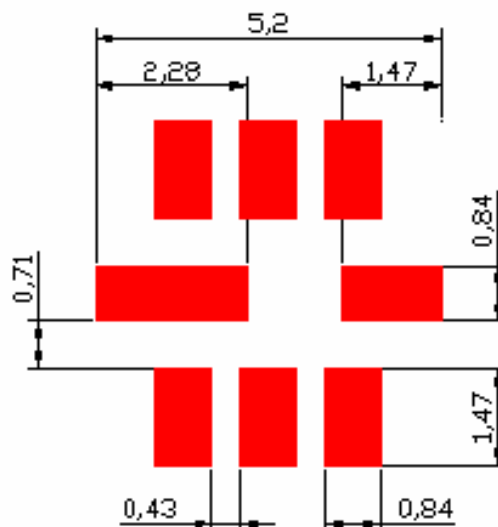
C. OUTLINE DRAWING:



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
- Unit mm

D. PCB FOOTPRINT:



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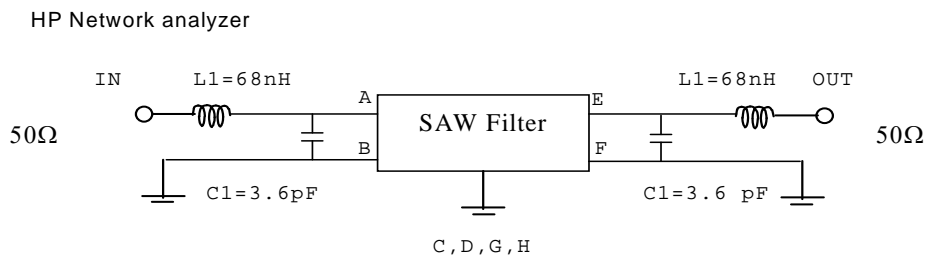
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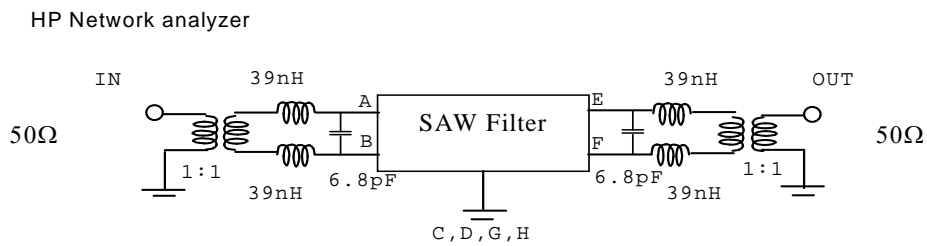
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E. MEASUREMENT CIRCUIT:

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



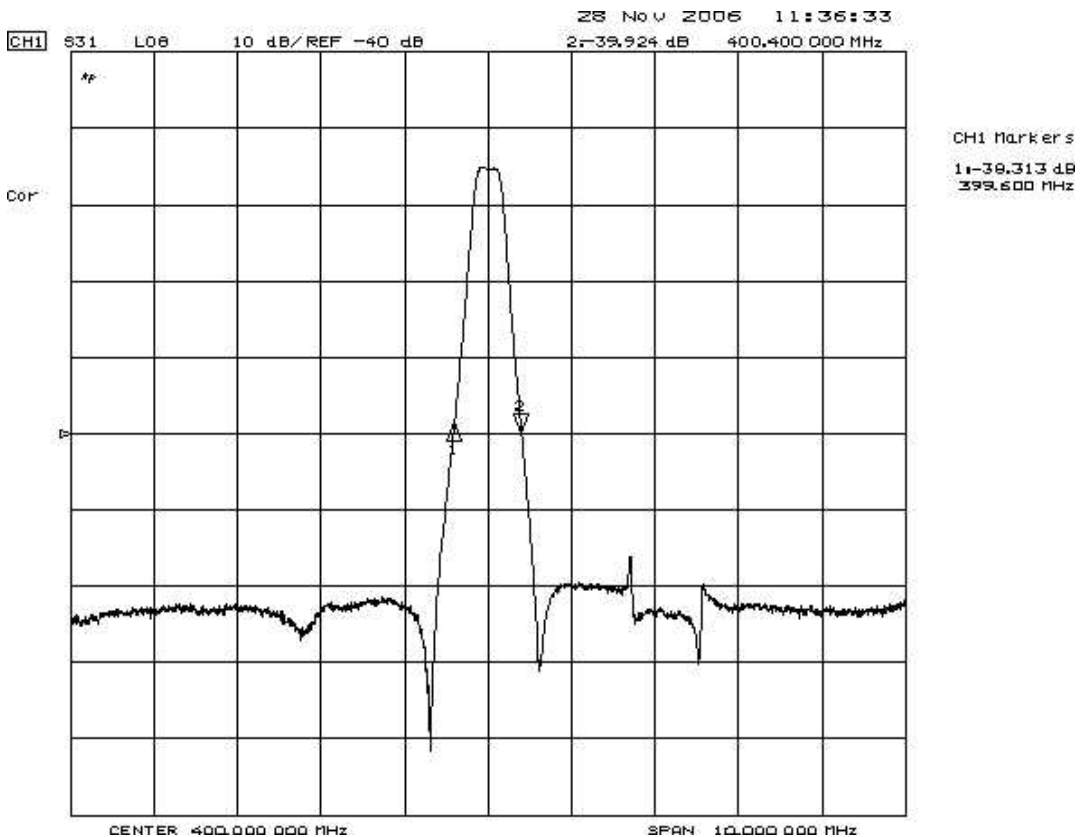
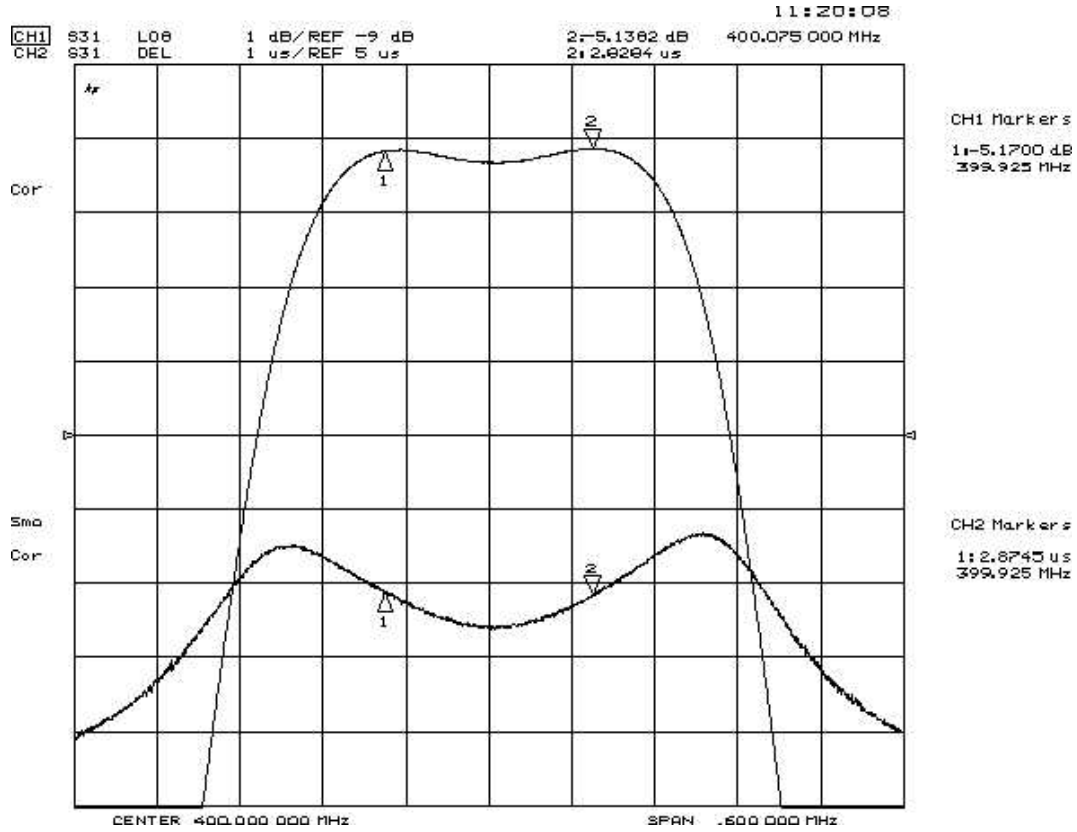
50 Ohm Test circuit (balanced-ended / balanced-ended)



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F. FREQUENCY CHARACTERISTICS:



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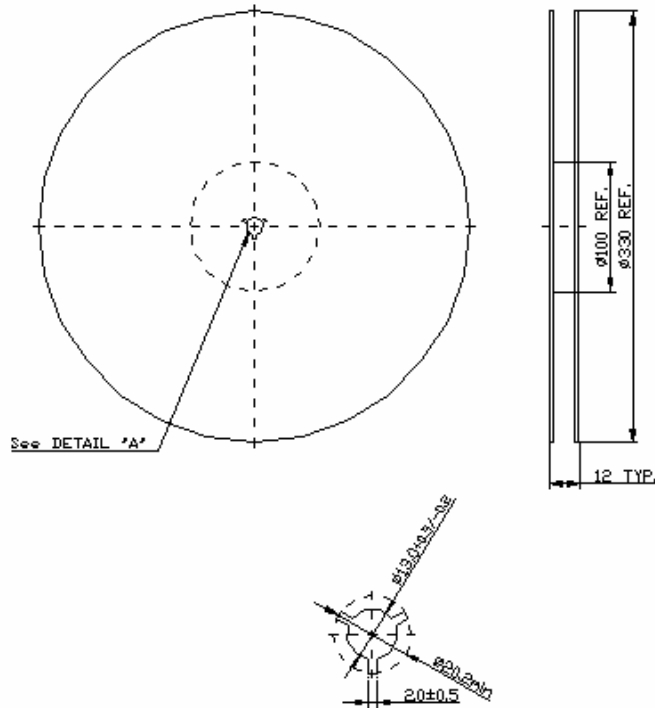
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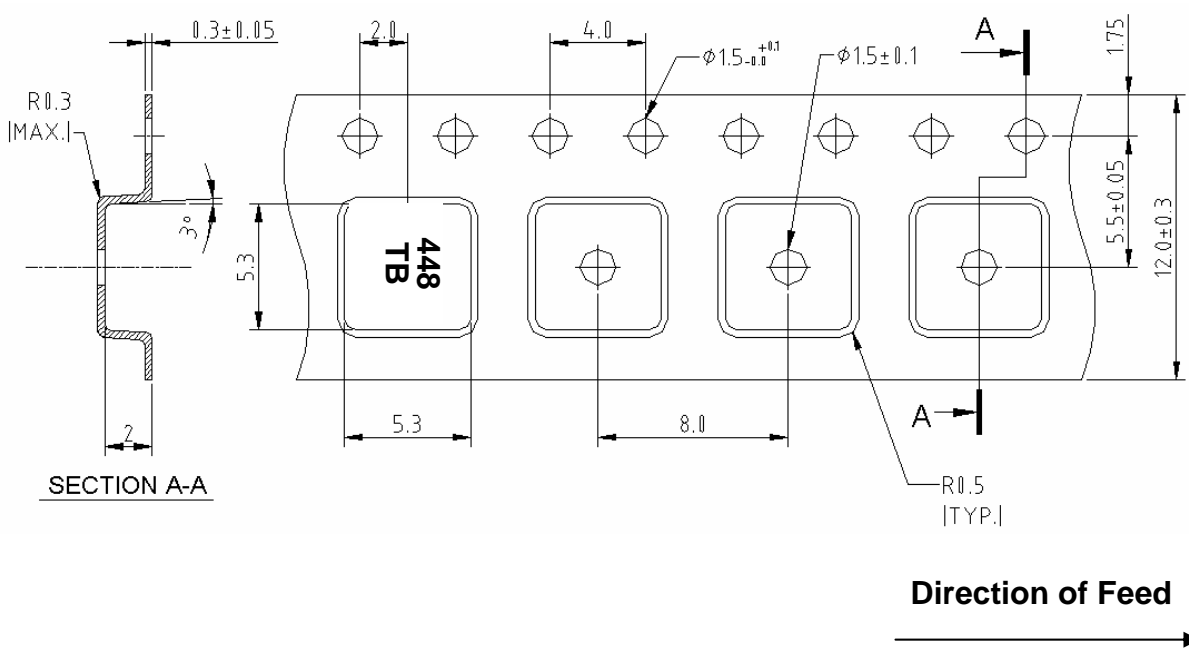
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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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H. RECOMMENDED REFLOW PROFILE :

