

SAW Filter 300.0MHz
Part No: MP02017

Model: TB0677A
Rev No: 3

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 13dBm
2. DC Voltage: 5V
3. Operating Temperature: -20°C to +80°C
4. Storage Temperature: -30°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

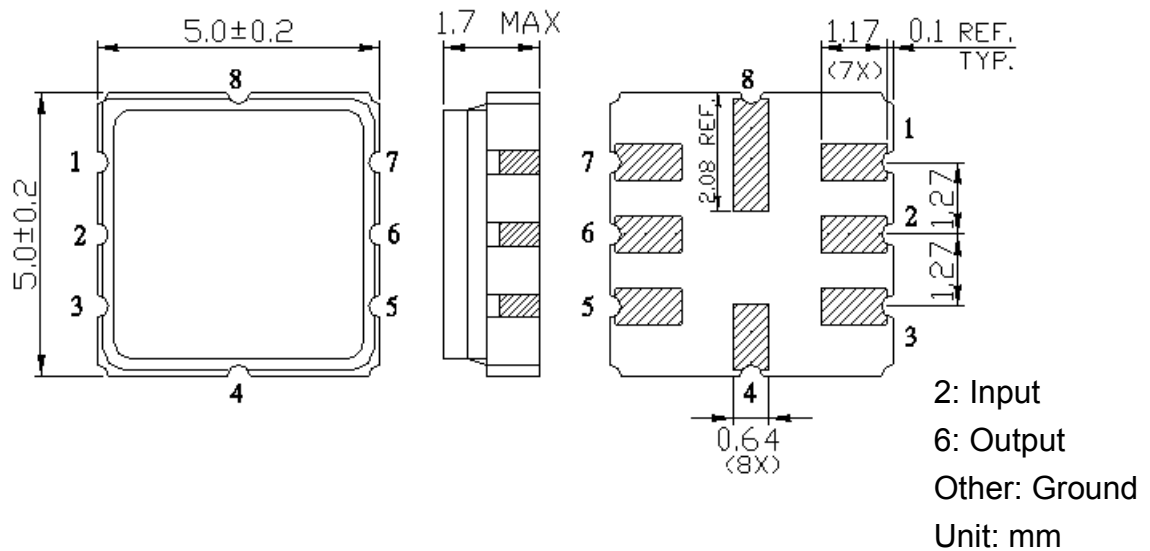
Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.	Note
Center frequency Fc	MHz	-	300	-	-
Min. Insertion loss ILc	dB	-	3.8	6.5	-
Passband Ripple (Fc ±35kHz)	dB	-	0.4	2.0	-
Bandwidth @3dB	KHz	200	230	260	-
Group delay ripple (299.965 ~ 300.035MHz)	µs	-	0.5	3.0	-
Attenuation (relative to ILc)					
Fc ±400kHz	dB	15	43	-	-
Fc ±400kHz ~ Fc ±600kHz	dB	27	43	-	-
Fc ±600kHz ~ Fc ±13MHz	dB	35	50	-	-
Fc ±100MHz	dB	50	55	-	-
Temperature coefficient of frequency TCf	-0.033 ppm/C ²				

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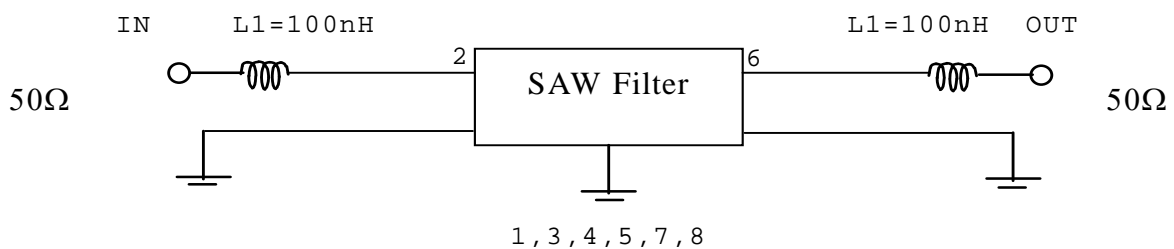
C. OUTLINE DRAWING:



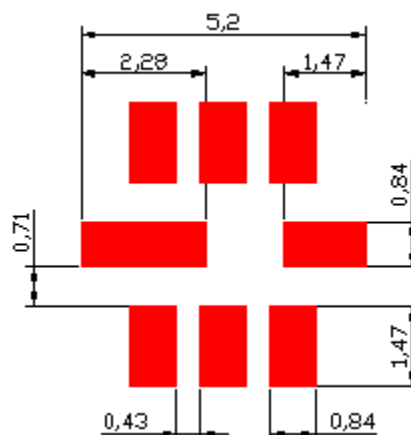
D. MEASUREMENT CIRCUIT:

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

HP Network analyzer



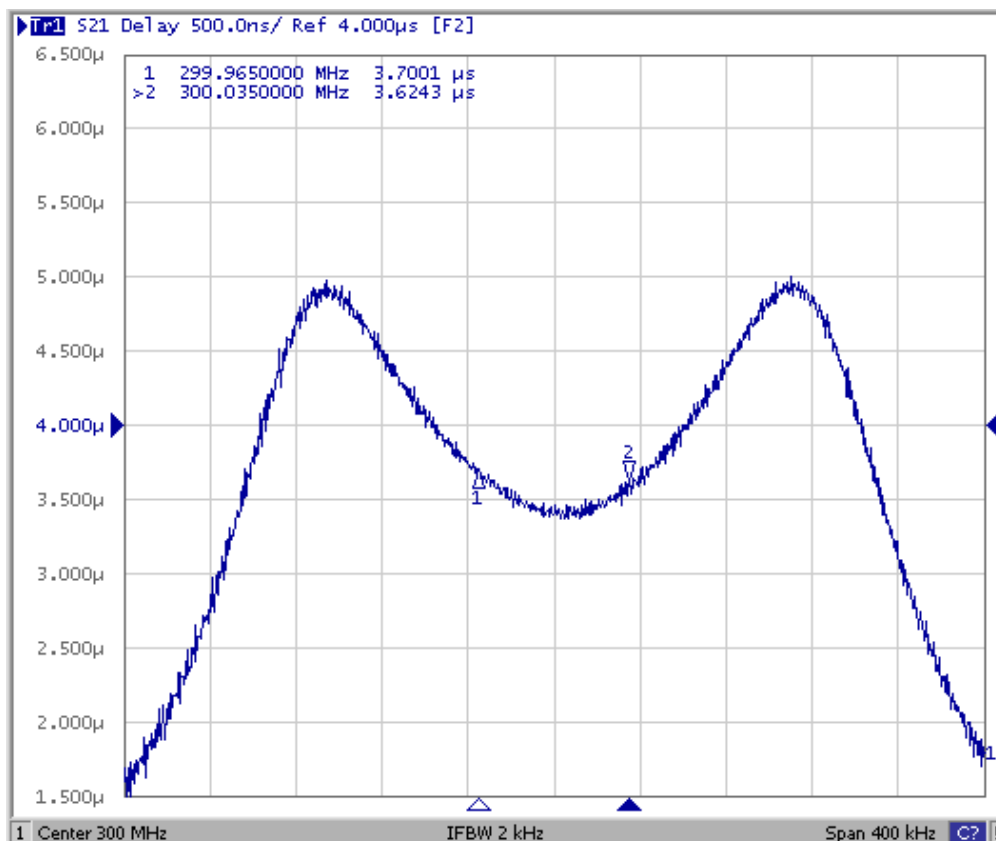
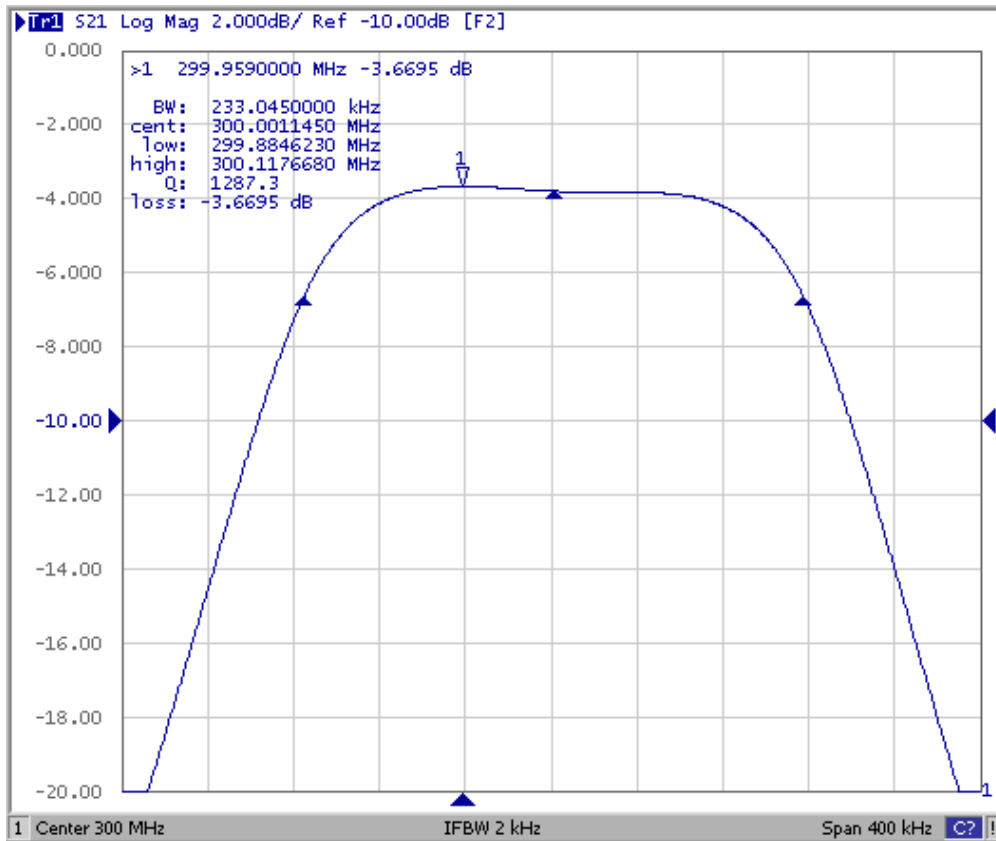
E. PCB FOOTPRINT:



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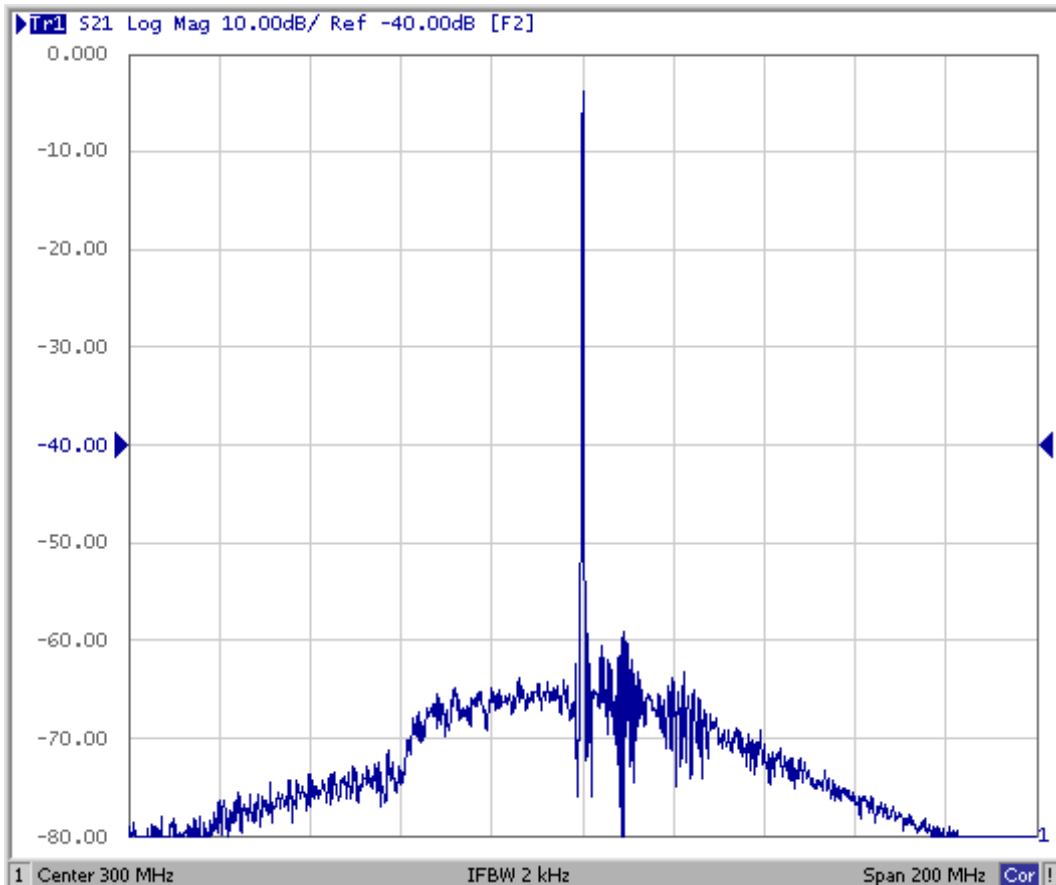
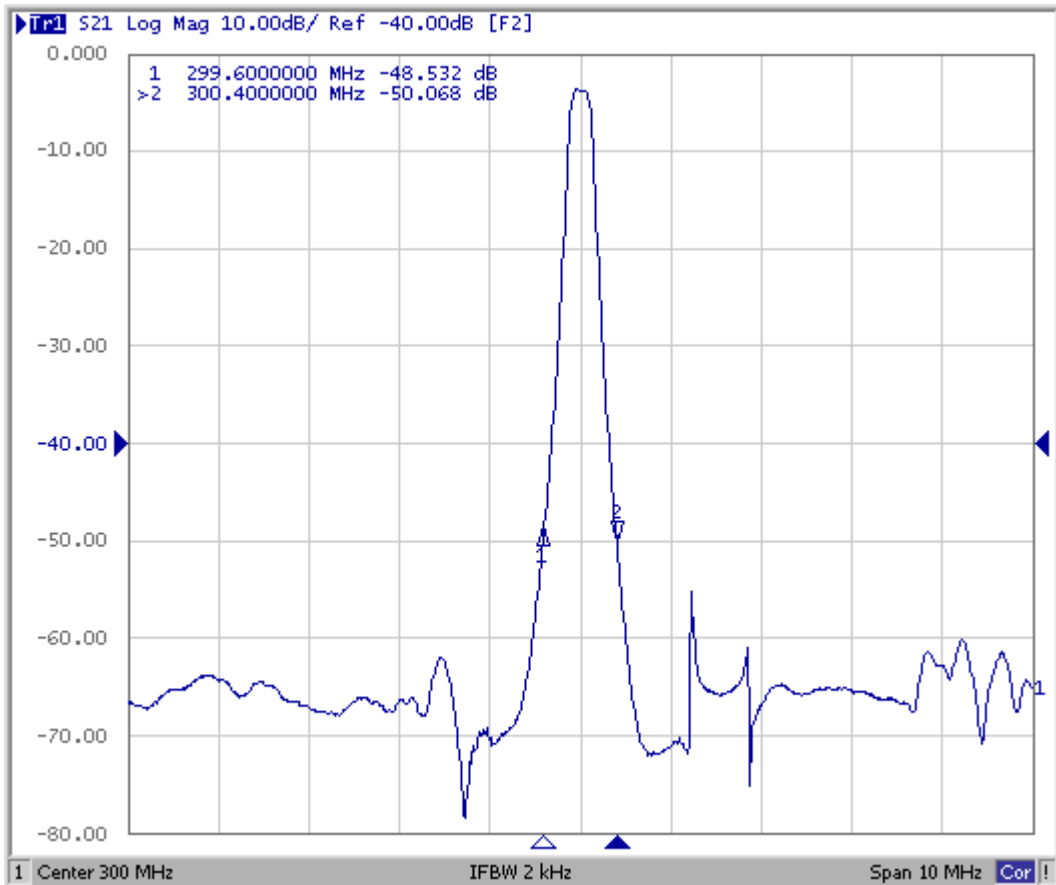
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F. FREQUENCY CHARACTERISTICS:



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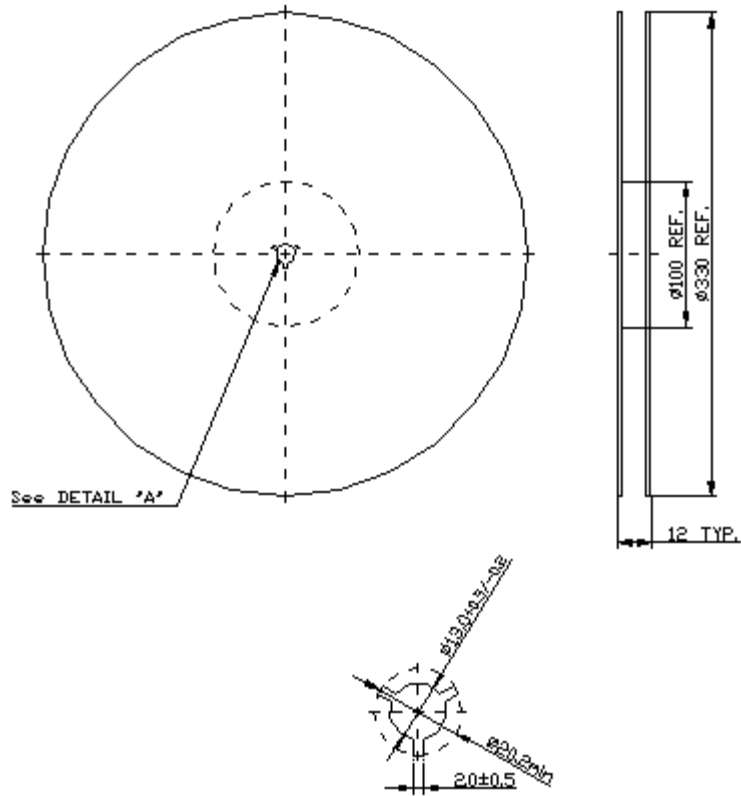


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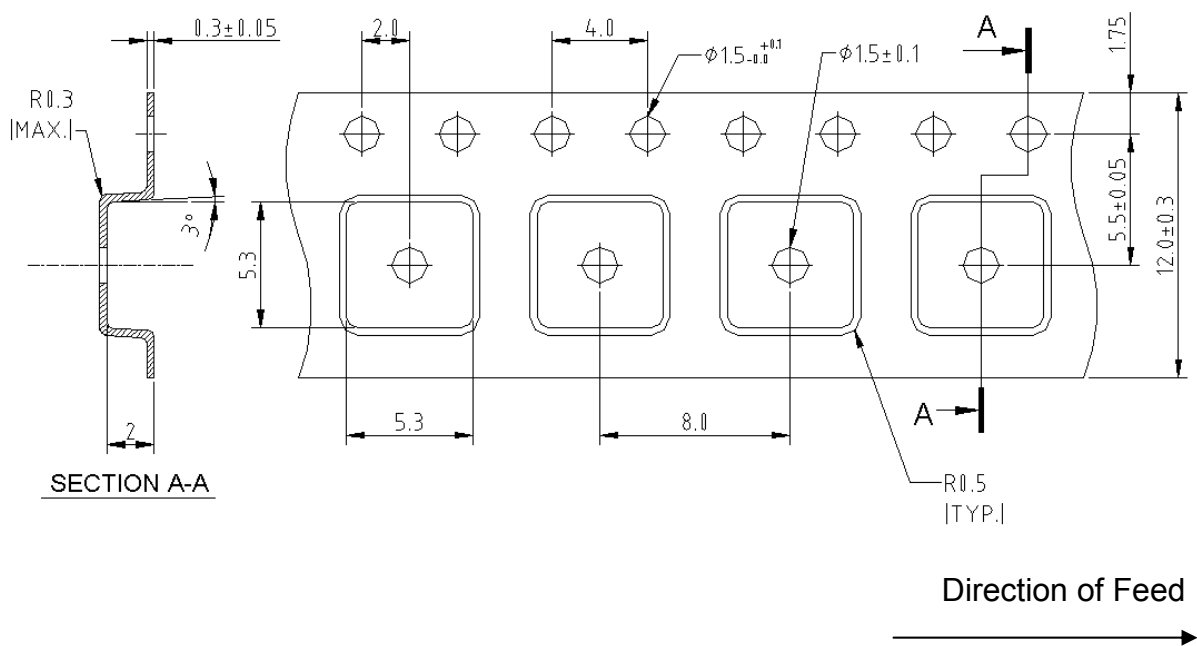
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

