

**SAW Filter 300.0MHz**

**Model: TB0677B**

**Part No: MP07988 (AEC-Q200 compliant)**

**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device

1. Input Power Level: 13dBm
2. DC Voltage: 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +125°C

**B. ELECTRICAL CHARACTERISTICS:**

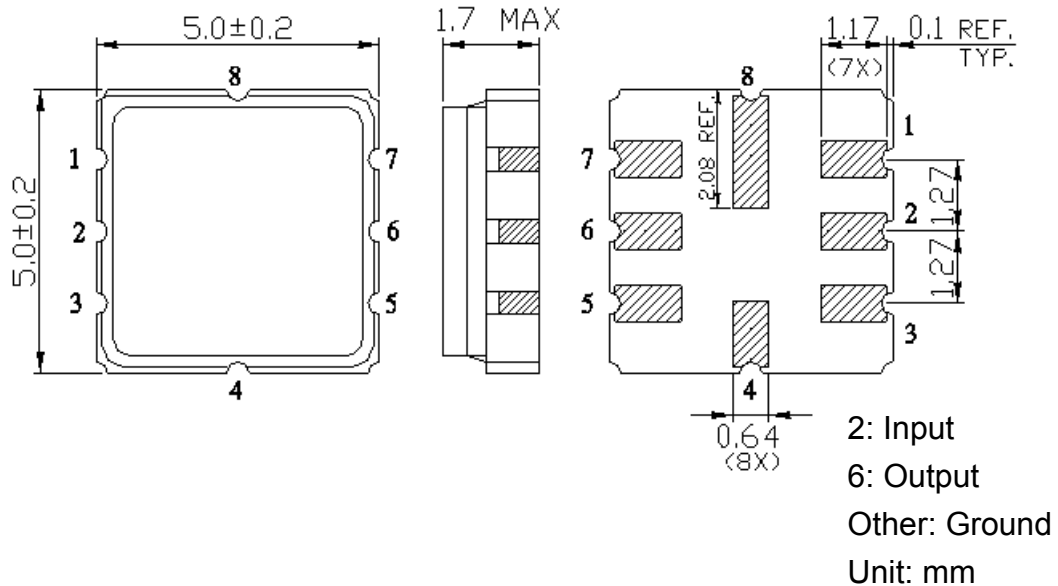
Ambient Temperature: 25°C

Item	Unit	Min.	Typ.	Max.	Note
Center frequency Fc	MHz	-	300	-	-
Min. Insertion loss IL c	dB	-	3.8	6.5	-
Passband Ripple (Fc ±35kHz)	dB	-	0.4	2.2	-
Bandwidth @3dB	kHz	200	230	-	-
Group delay ripple (299.965 ~ 300.035MHz)	µs	-	0.5	3	-
Attenuation (relative to IL c)					
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 <sup>2</sup>				

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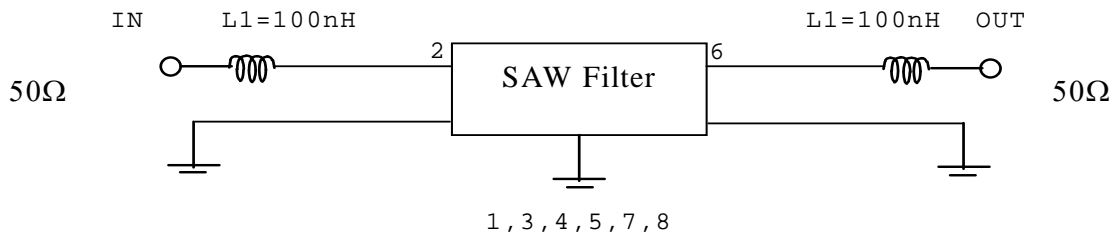
**C. OUTLINE DRAWING:**



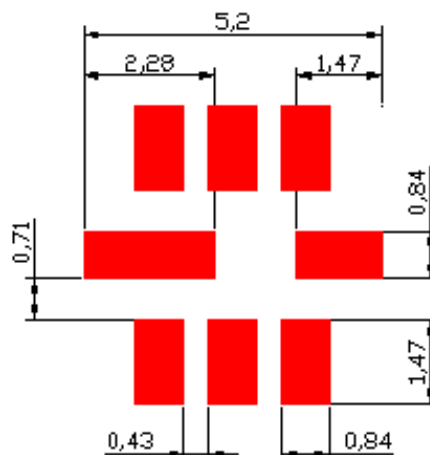
**D. MEASUREMENT CIRCUIT:**

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

HP Network analyzer



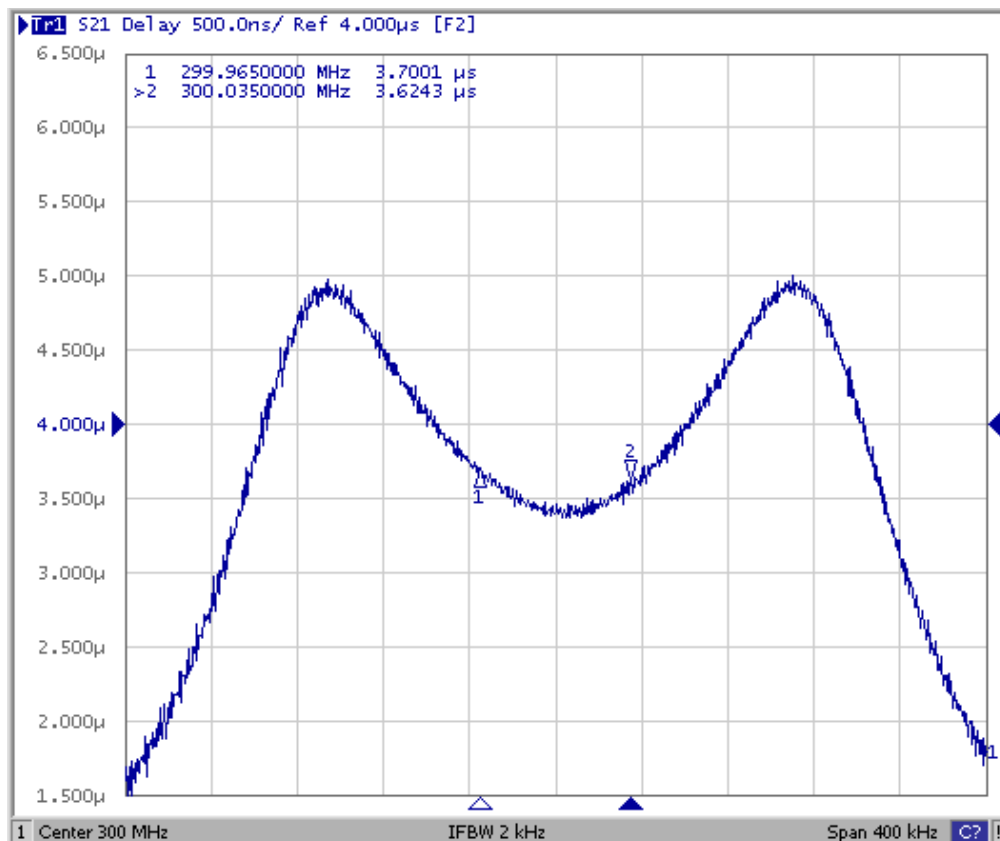
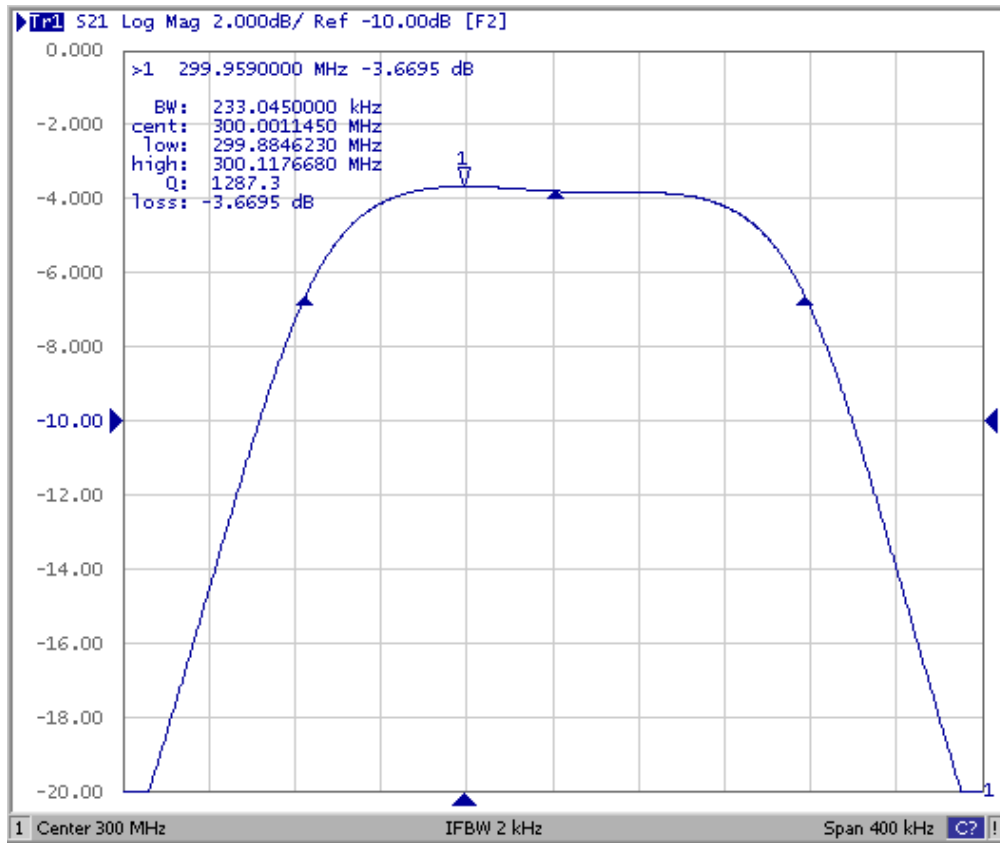
**E. PCB FOOTPRINT:**



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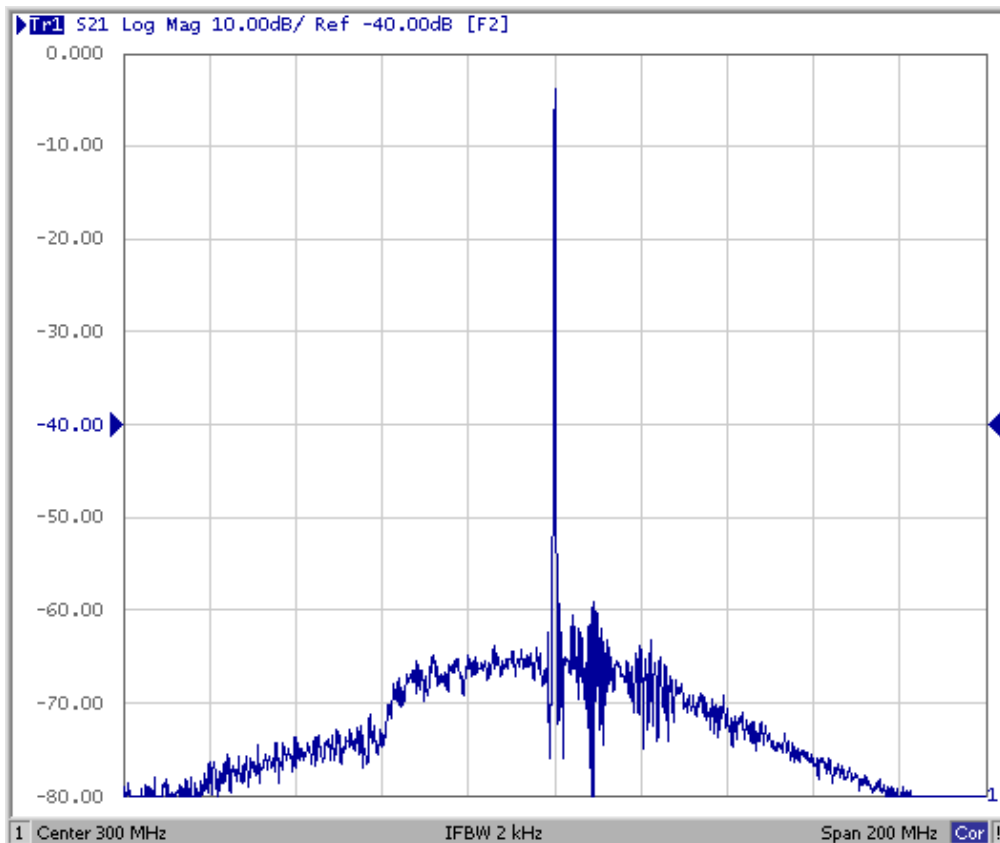
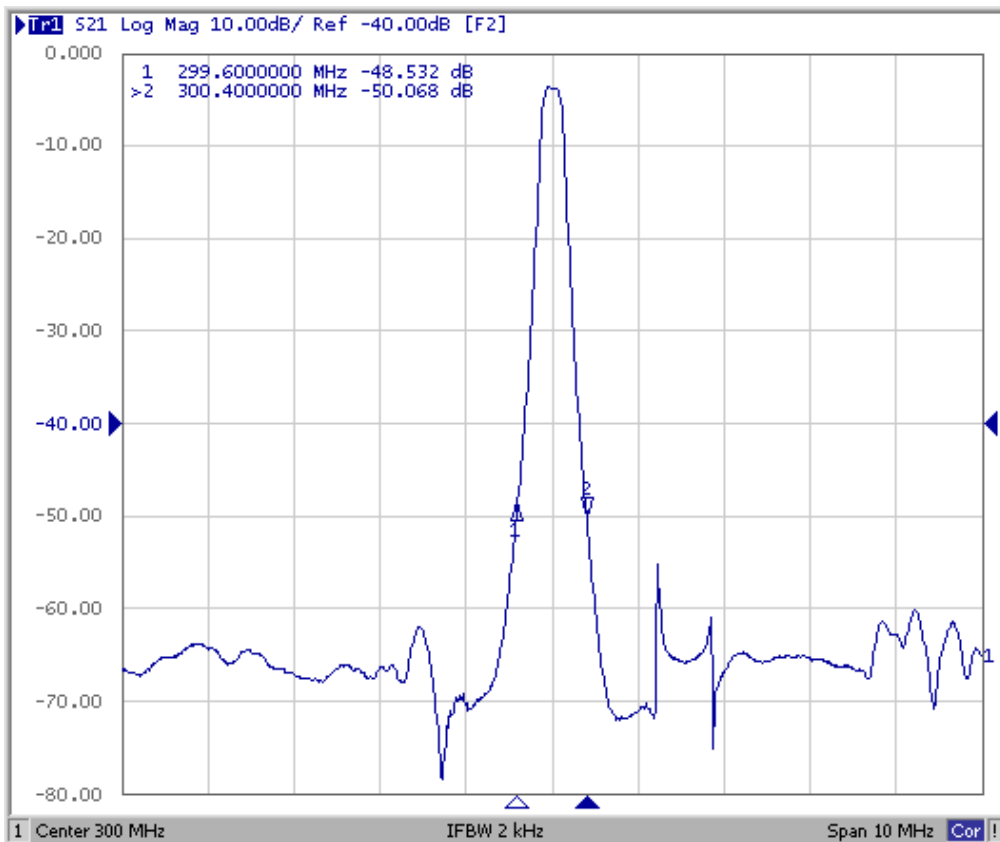
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**F. FREQUENCY CHARACTERISTICS:**



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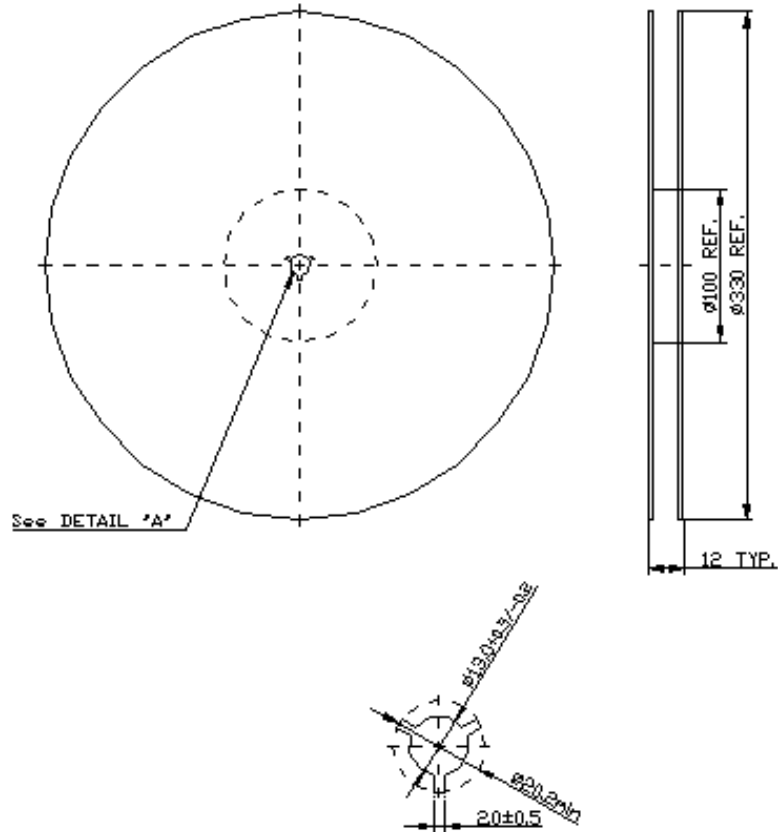


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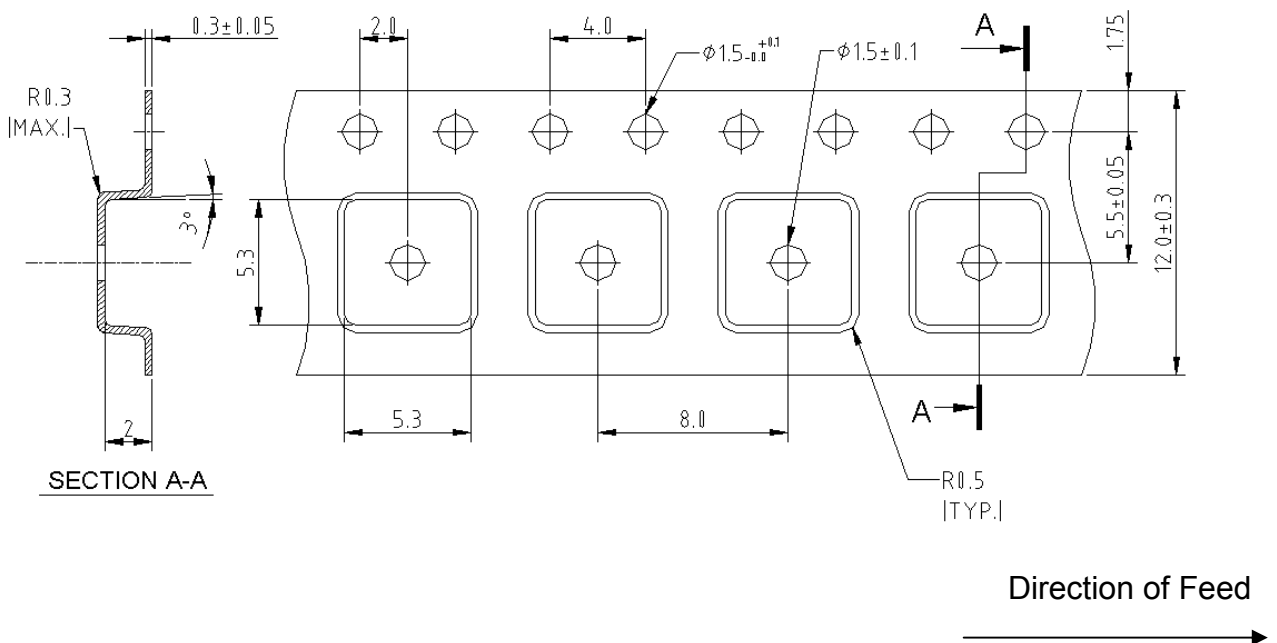
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**G. PACKING:**

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)



2. Tape Dimension



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**H. RECOMMENDED REFLOW PROFILE:**

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

