

**SAW Filter 200.0MHz**

**Model: TA2036A**

**Part No: MP09985**

**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 0V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	200	-
1dB BW	kHz	150	390	-
3dB BW	kHz	-	469	-
Minimum insertion loss (min) Incl. loss of matching elements *1)	dB	-	2.0	3.5
Passband (relative to IL min) *1) 199.925 ~ 200.075MHz	dB	-	0.5	1.5
Attenuation (relative to IL min) *1)				
10.00 ~ 165.00MHz	dB	50	60	-
165.00 ~ 195.00MHz	dB	33	40	-
195.0 ~ 199.00MHz	dB	15	22	-
201.00 ~ 215.50MHz	dB	10	25	-
215.50 ~ 325.50MHz	dB	39	46	-
325.50 ~ 1000.0MHz	dB	50	55	-
Source Impedance	ohm	50		
Load Impedance	ohm	50		

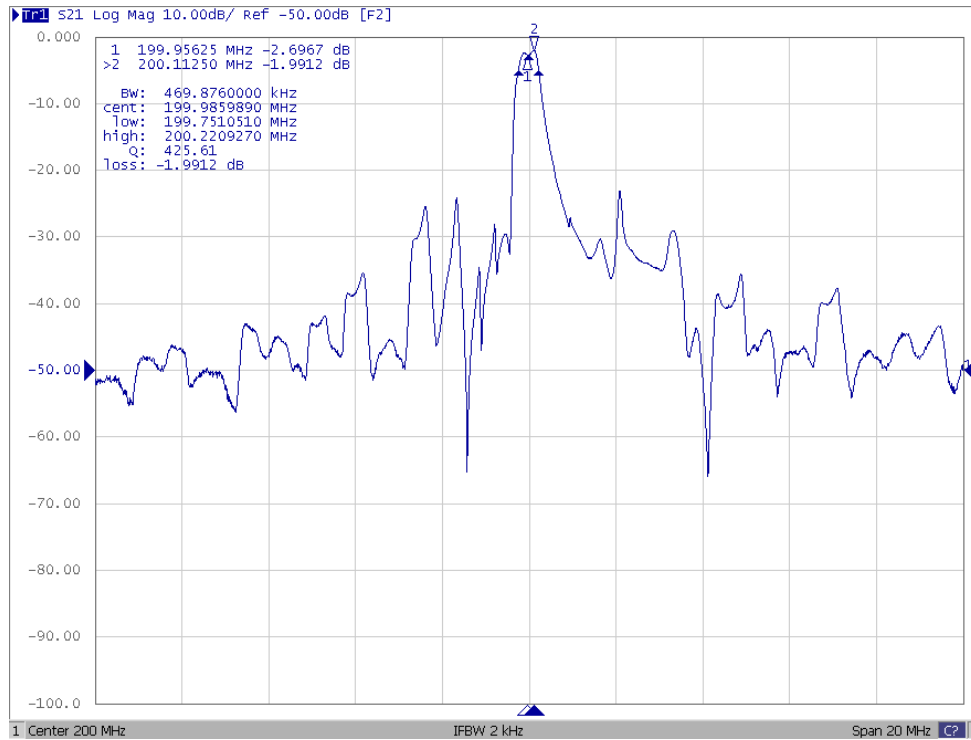
\*1): The matching circuit is real by actual passive components.  
 0805 Coilcraft CS series chip conductor is used for inductor.  
 0402 muRata GRM series is used for capacitor.

**SAW Filter 200.0MHz**  
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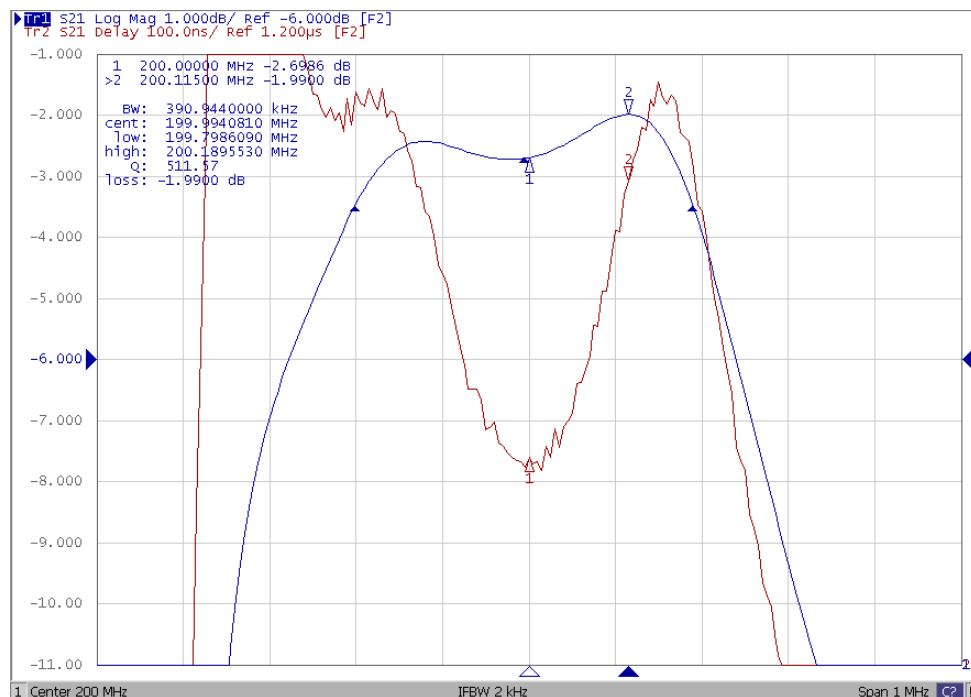
**Model: TA2036A**  
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### C. FREQUENCY CHARACTERISTICS:

#### 1. Narrow band Response:



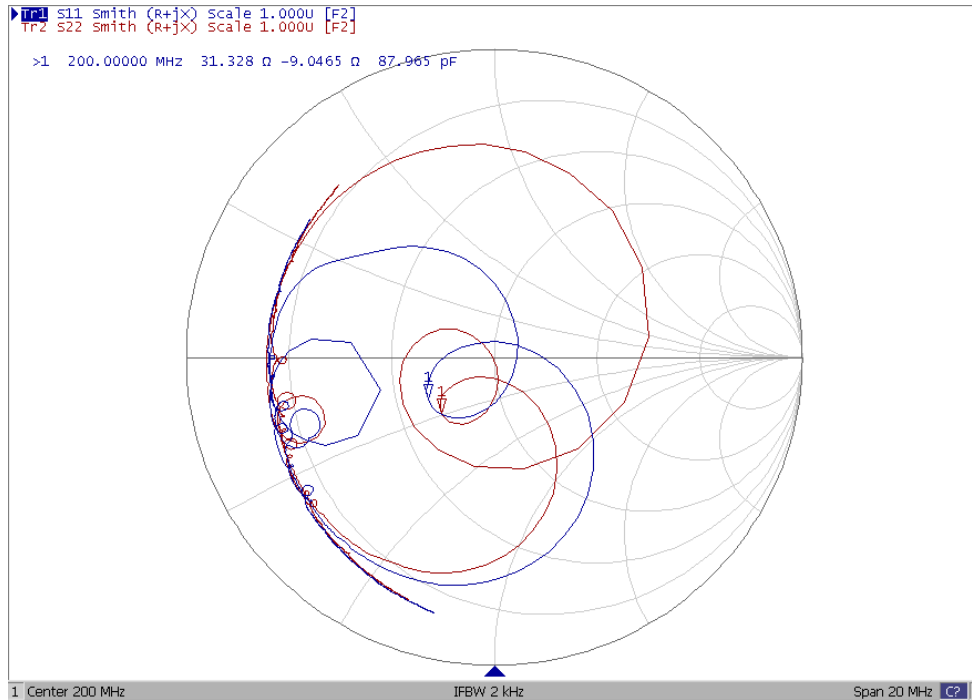
#### 2. Pass band Response:



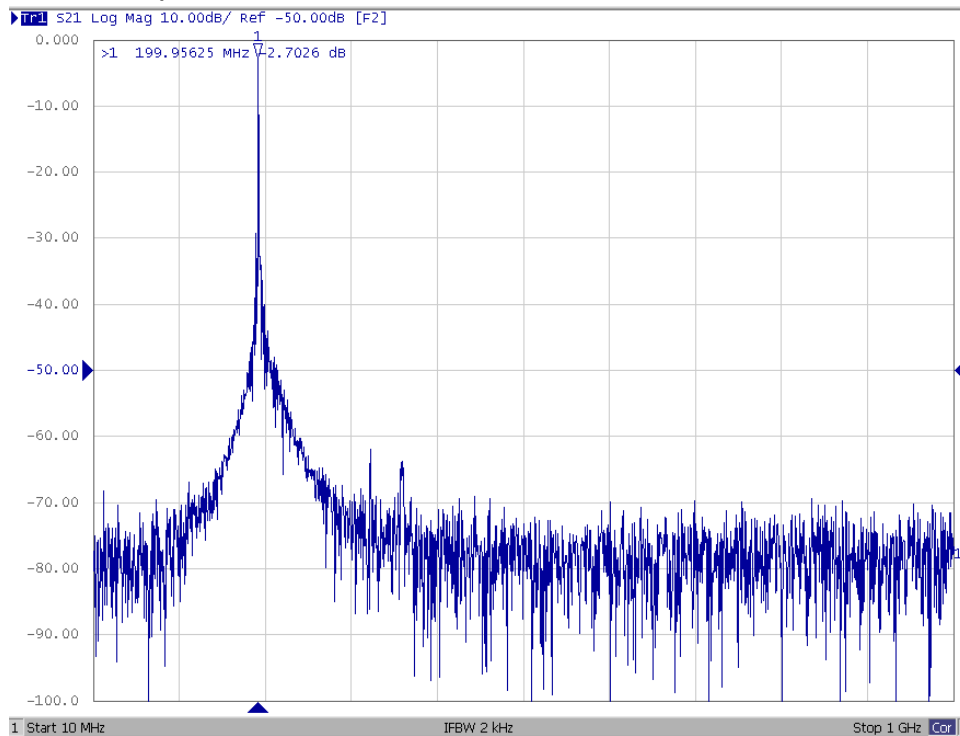
**SAW Filter 200.0MHz**  
**Part No: MP09985**

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3. Impedance:



4. Wide band Response:



**SAW Filter 200.0MHz**

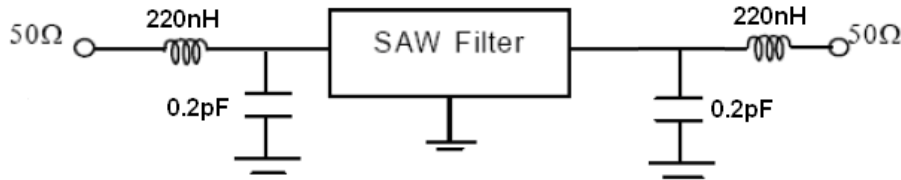
**Model: TA2036A**

**Part No: MP09985**

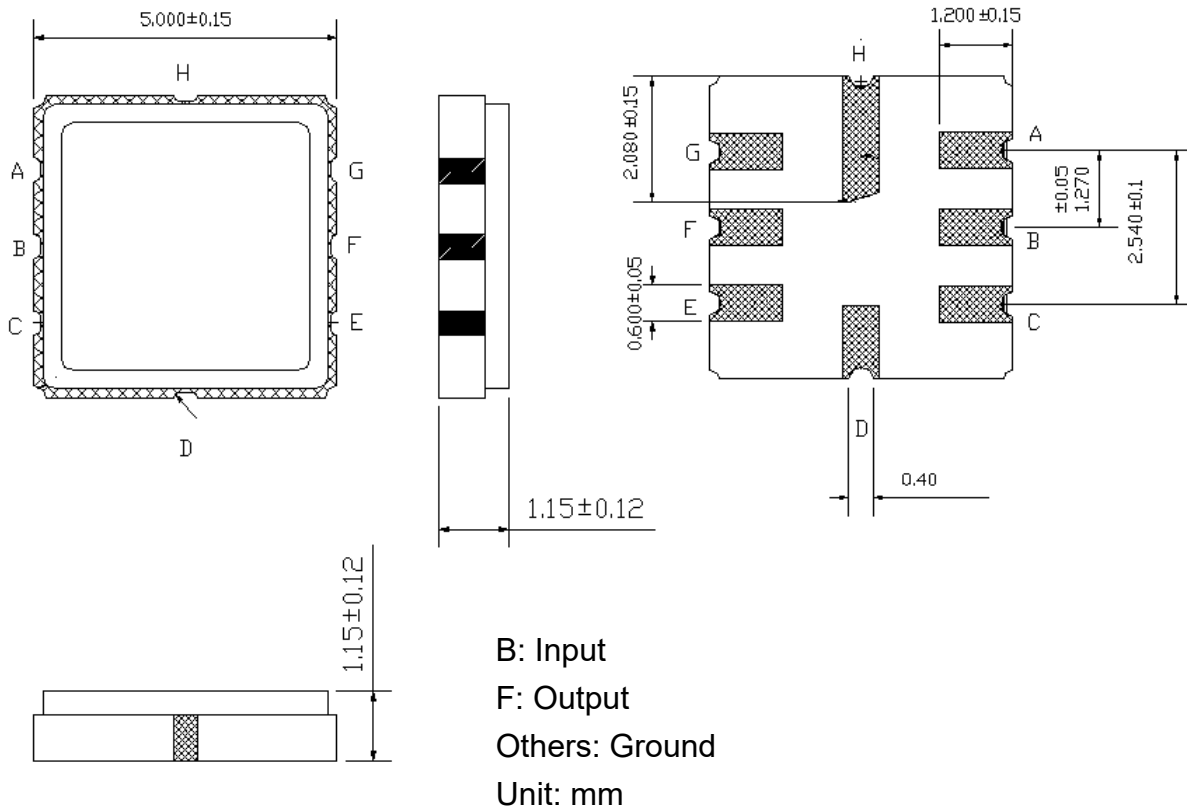
**Rev No: 1**

**D. MEASUREMENT CIRCUIT:**

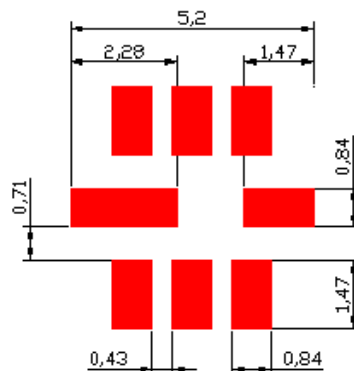
The matching circuit is real by actual passive components.



**E. OUTLINE DRAWING:**



**F. PCB FOOTPRINT:**

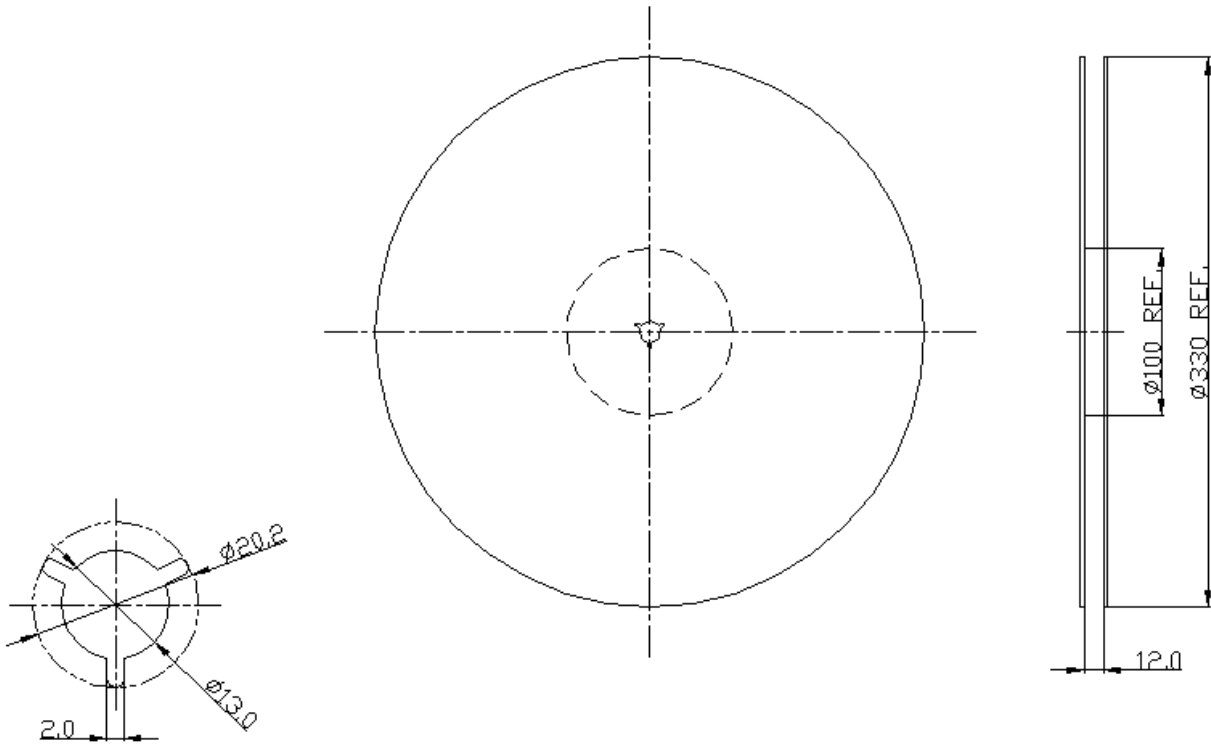


**SAW Filter 200.0MHz**  
**Part No: MP09985**

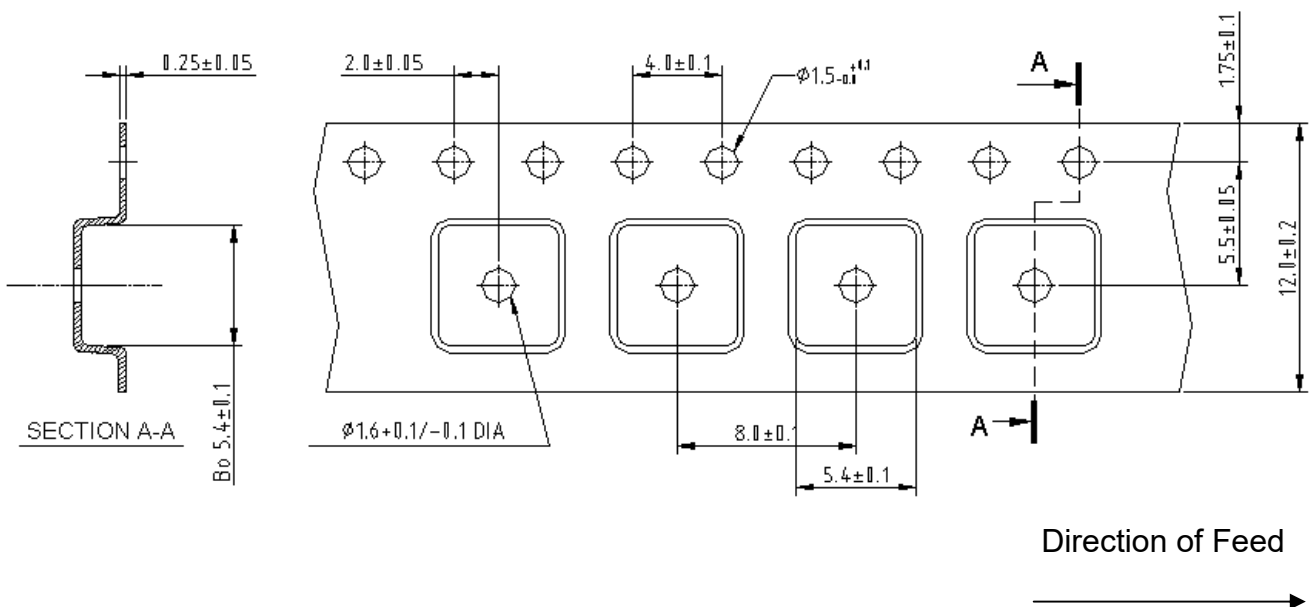
**Model: TA2036A**  
**Rev No: 1**

**G. PACKING:**

1. Reel Dimensions



2. Tape Dimensions



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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.

