

**SAW Filter 876.50MHz**  
**Part No: MP09246**

**Model: TA2016A**  
**Rev No: 2**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
2. DC Voltage: 5V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -55°C to +125°C
5. Moisture Sensitive Level: Level 3 (MSL3)
6. ESD 100V (MM) 200V (HBM)

**B. ELECTRICAL CHARACTERISTICS:**

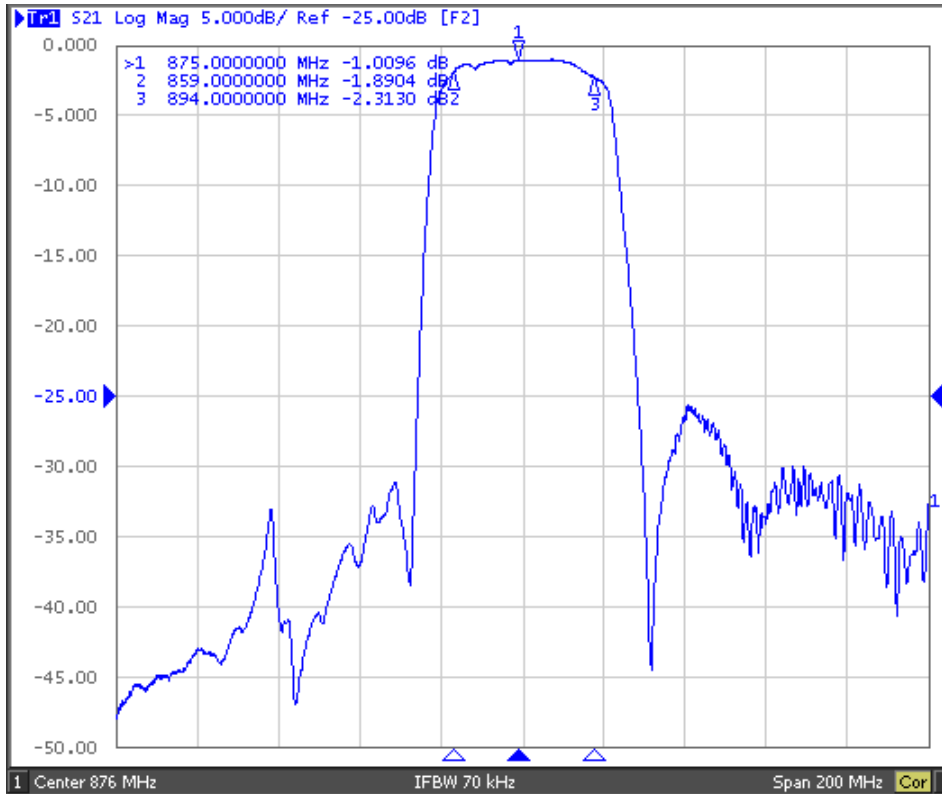
Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	876.5	-	-
Insertion Loss (859 ~ 894MHz) IL	dB	-	2.1	3	-
(859 ~ 894MHz) IL	dB	-	2.1	2.5	23 to 27°C
VSWR (859 ~ 894MHz)		-	2	2.3	-
Amplitude ripple (859 ~ 894MHz)	dB	-	1.2	2.2	-
Attenuation					
1 ~ 447MHz	dB	40	46	-	-
814 ~ 849MHz	dB	30	35	-	-
849 ~ 854MHz	dB	3	22	-	-
849 ~ 854MHz	dB	10	22	-	23 to 27°C
909 ~ 979MHz	dB	25	32	-	-
979 ~ 6000MHz	dB	20	34	-	-
6013 ~ 6258MHz	dB	20	34	-	-
6258 ~ 12750MHz	dB	10	15	-	-
Temperature coefficient	ppm/°C	-36			
Package size	mm	SMD 1.1 x 0.9			

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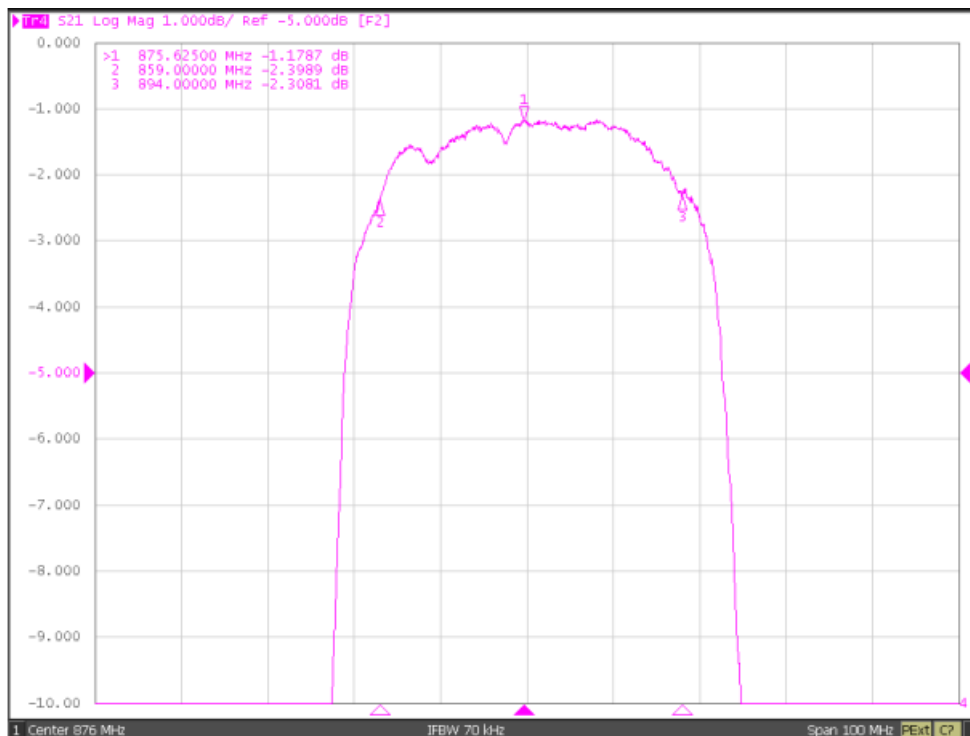
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**C. FREQUENCY CHARACTERISTICS:**

1. S21 response: (span 200MHz)



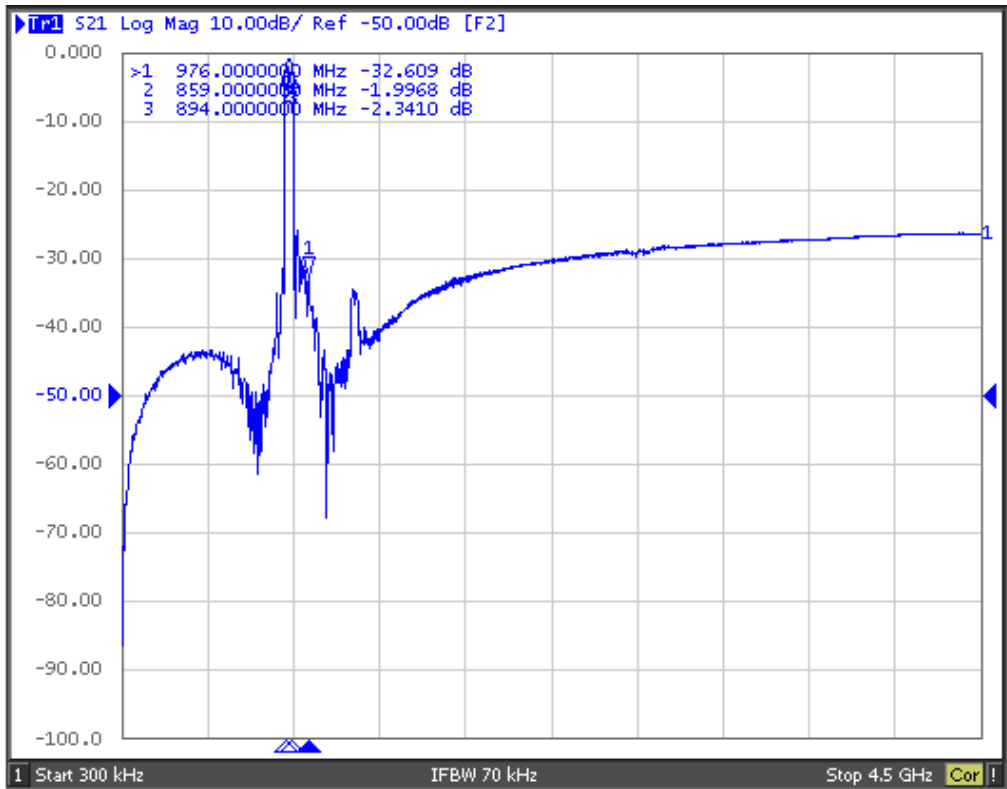
2. S21 response: (span 100MHz)



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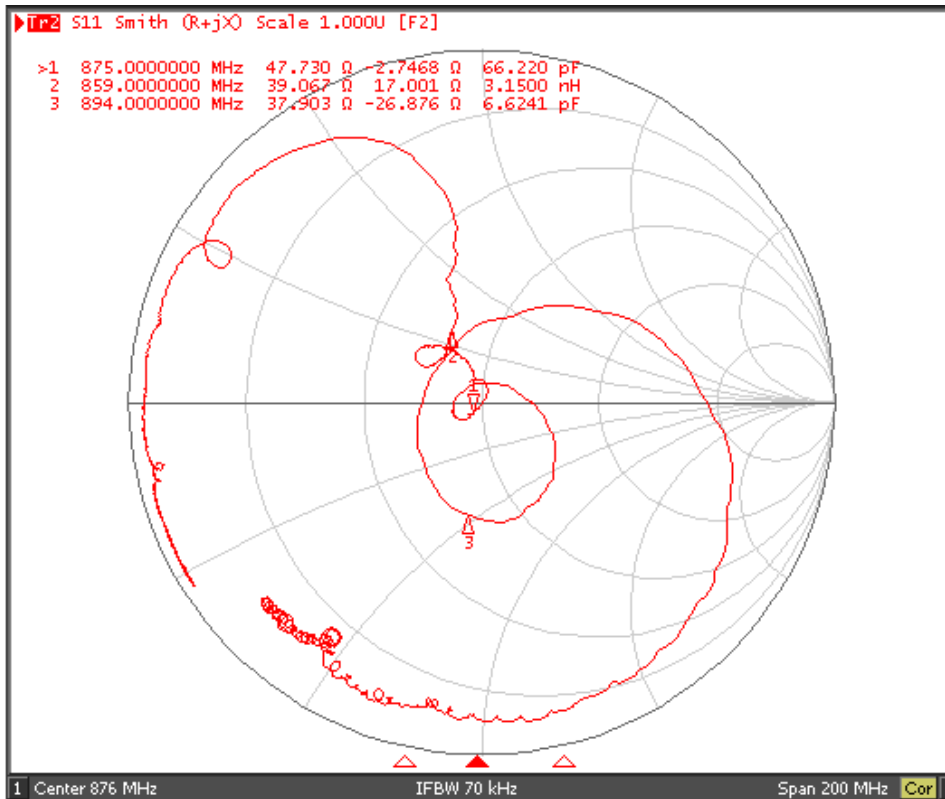
3. S21 response: (span 100MHz)



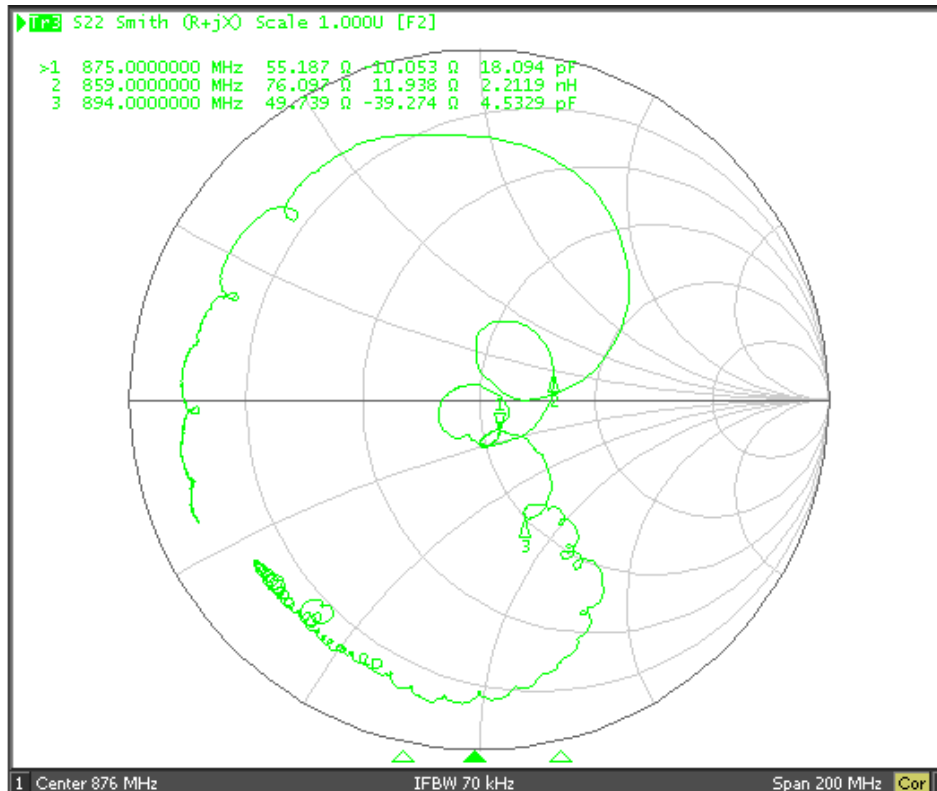
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4. S11:



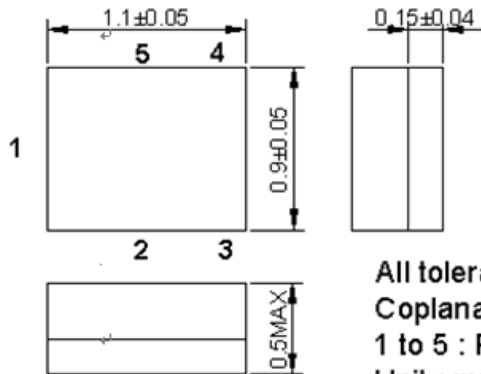
5. S22:



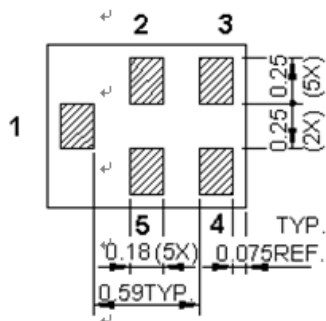
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**D. OUTLINE DRAWING:**



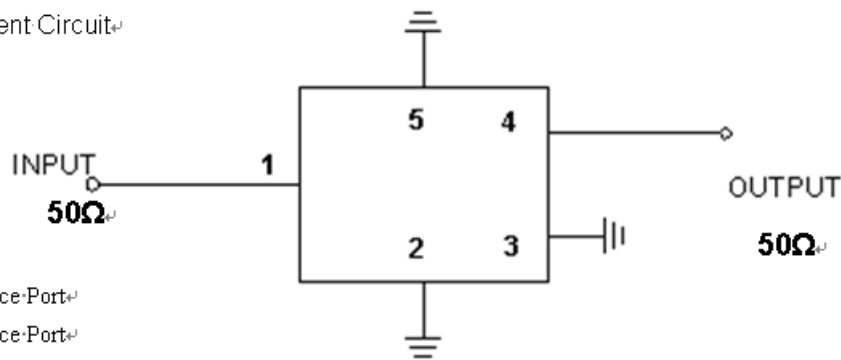
All tolerances are +/-0.05 mm unless otherwise specified  
 Coplanarity : 0.1 mm max.  
 1 to 5 : Pin No.  
 Unit : mm



Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

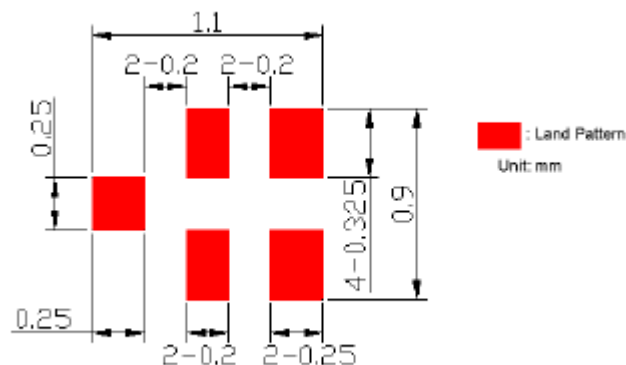
**E. MEASUREMENT CIRCUIT:**

Measurement Circuit



- (1): Unbalance Port
- (4): Unbalance Port
- Others: Ground

**F. FOOTPRINT:**

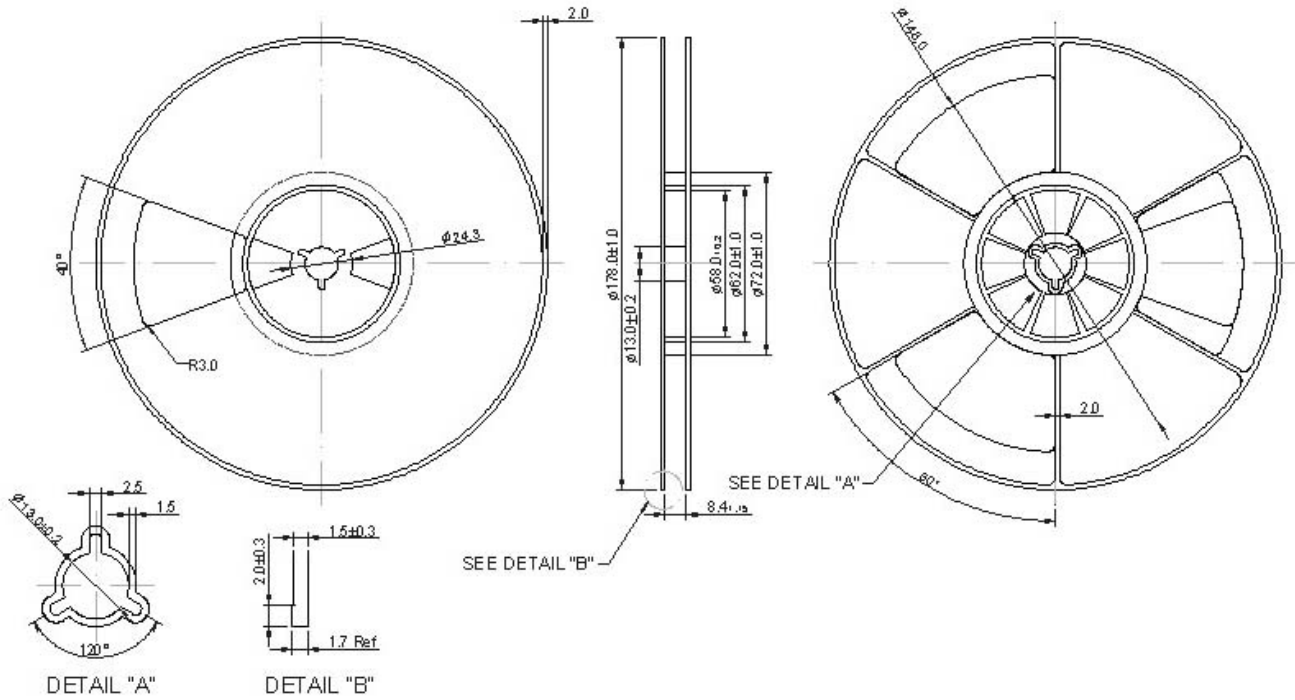


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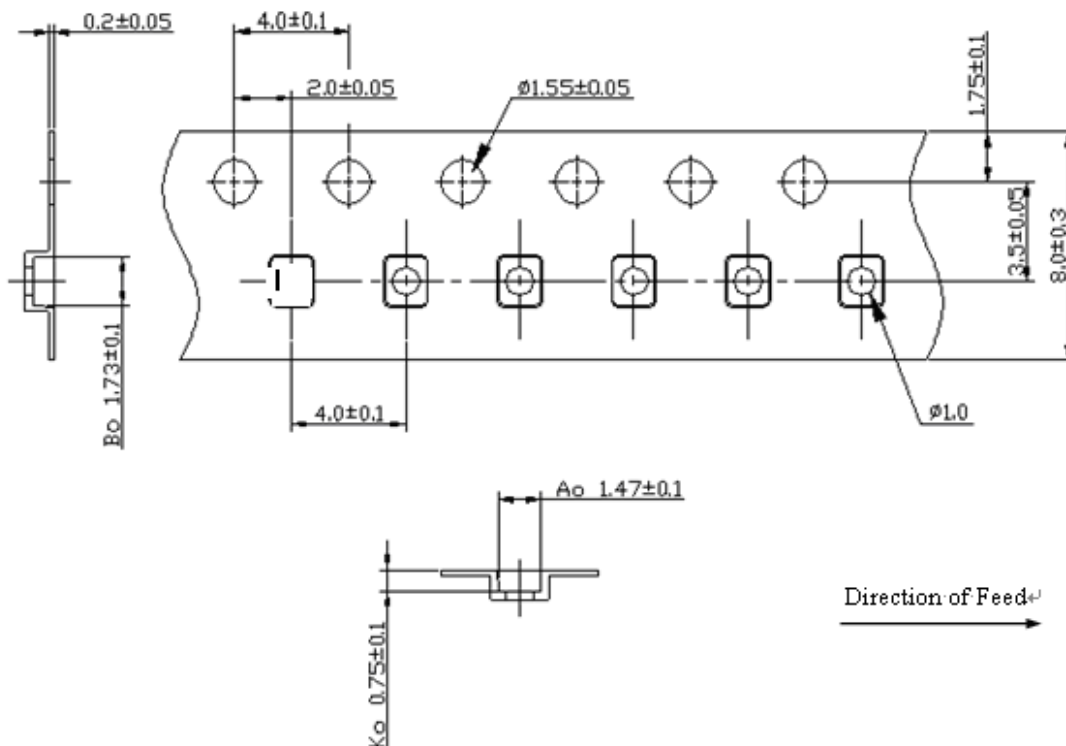
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**G. PACKING:**

**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.

