

**SAW Filter 978.0MHz**  
**Part No: MP03790**

**Model: TA1410A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

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

**B. ELECTRICAL CHARACTERISTICS:**

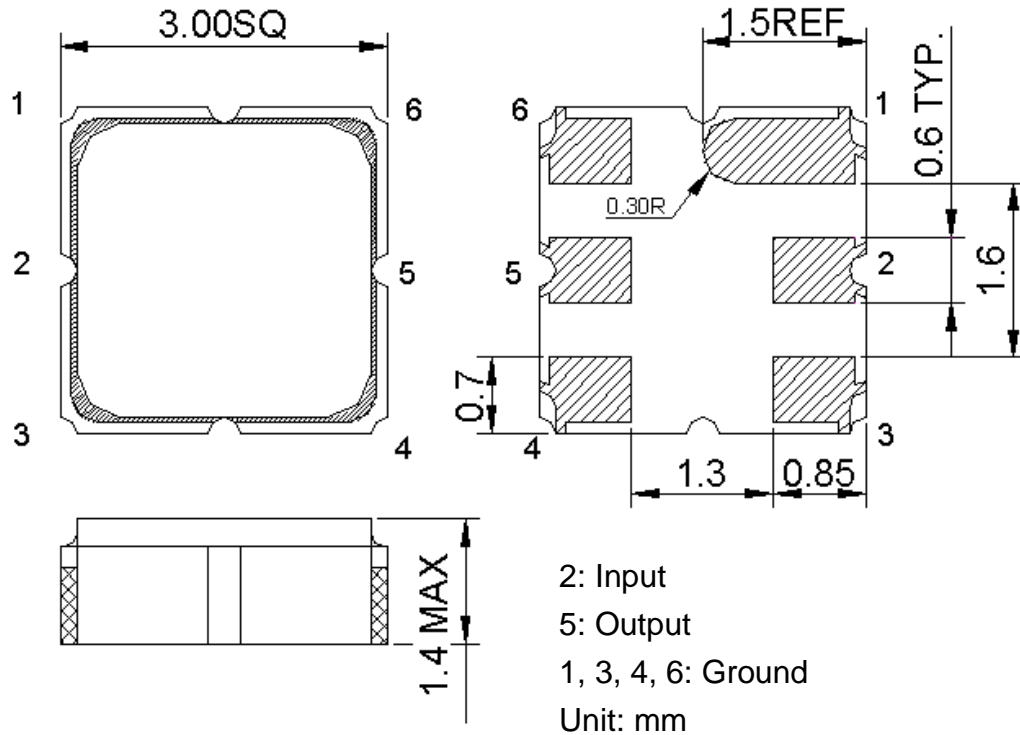
1. Terminating source impedance (single ended):  $Z_S = 50\Omega$
2. Terminating load impedance (single ended):  $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	978	-	-
Insertion Loss (967 ~ 989MHz)	dB	-	2.2	3.5	-
Amplitude Variation (967 ~ 989MHz)	dB	-	1.2	2.5	-
Amplitude Variation over 3MHz	dB	-	0.7	1.3	-
VSWR (967 ~ 989MHz)		-	1.75	2.4	-
Group Delay Variation over 3MHz	ns	-	20	25	-
Attenuation (reference level from 0dB)					
DC ~ 949MHz	dB	30	36	-	-
949 ~ 953MHz	dB	15	30	-	-
1003 ~ 1007MHz	dB	15	50	-	-
1007 ~ 2000MHz	dB	30	37	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

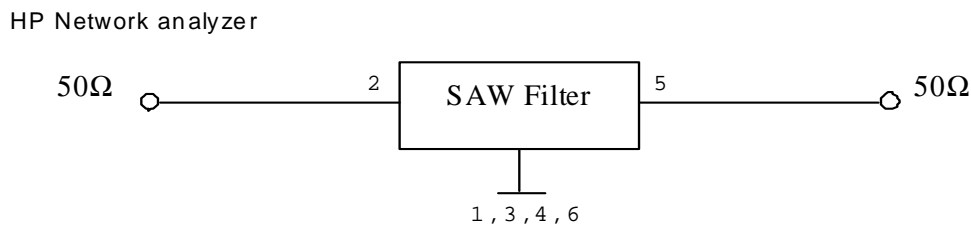
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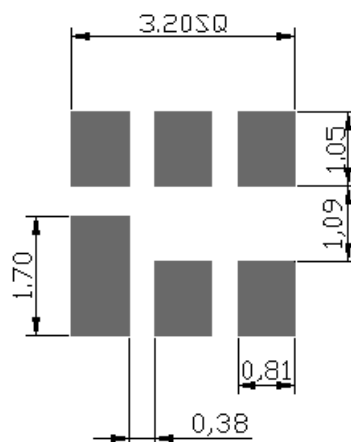
**C. OUTLINE DRAWING:**



**D. MEASUREMENT CIRCUIT:**



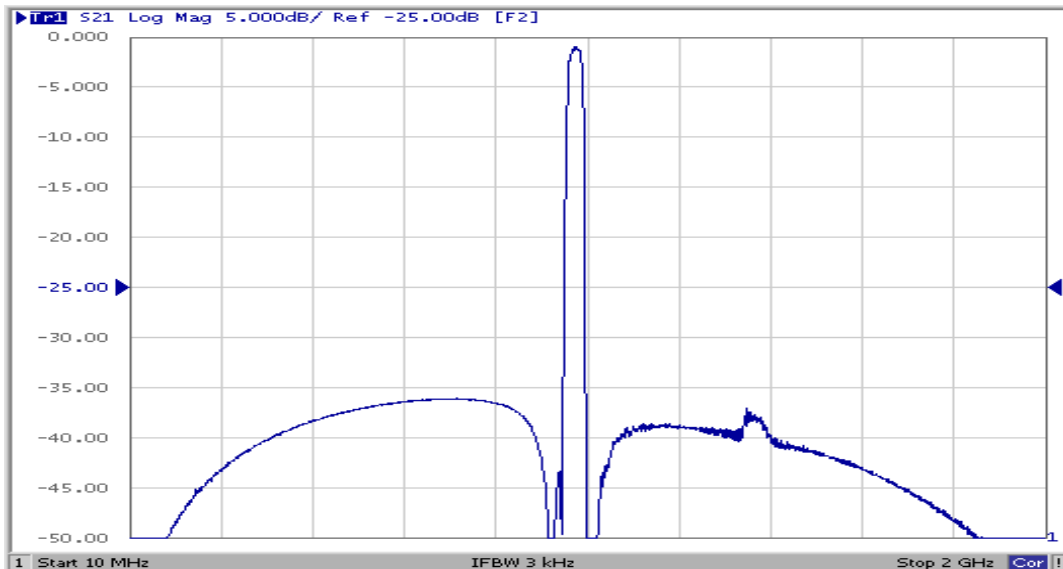
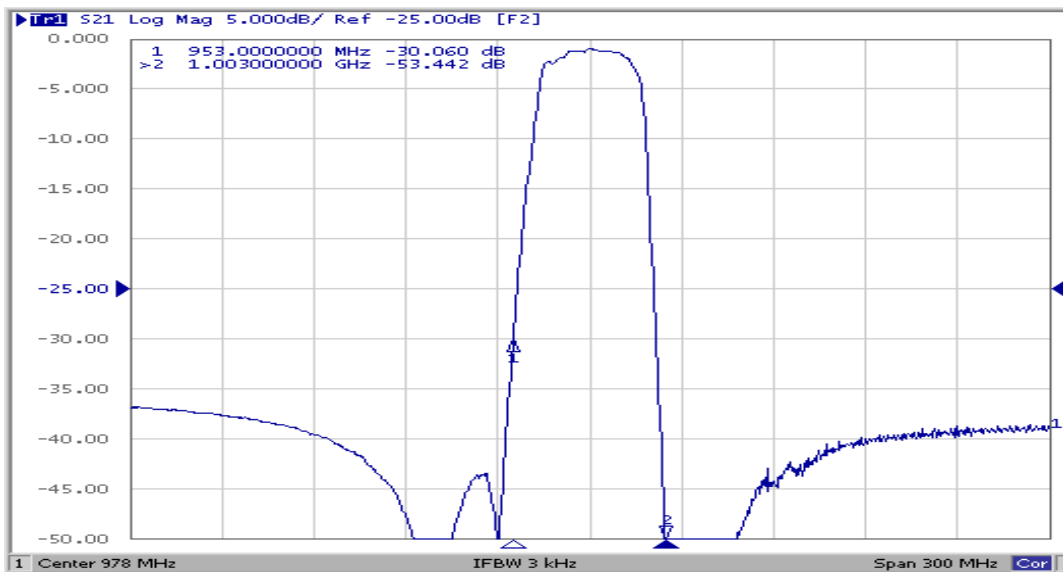
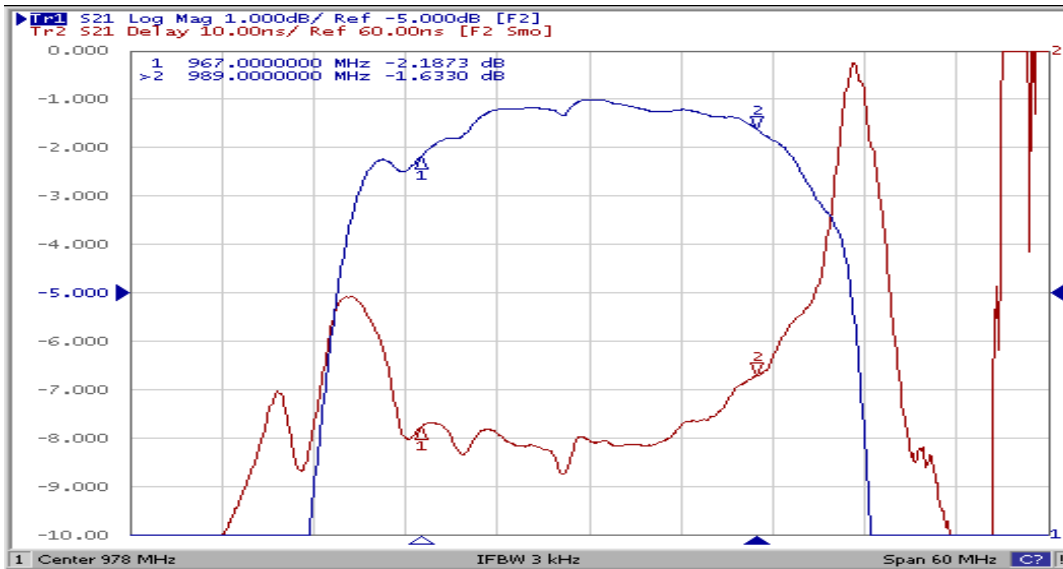
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

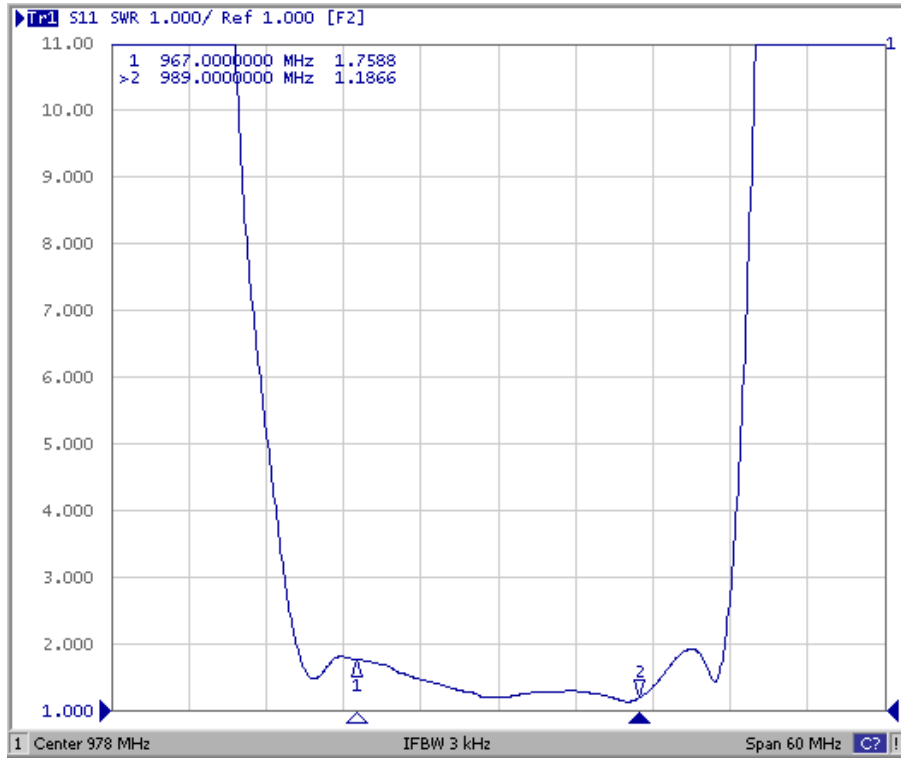


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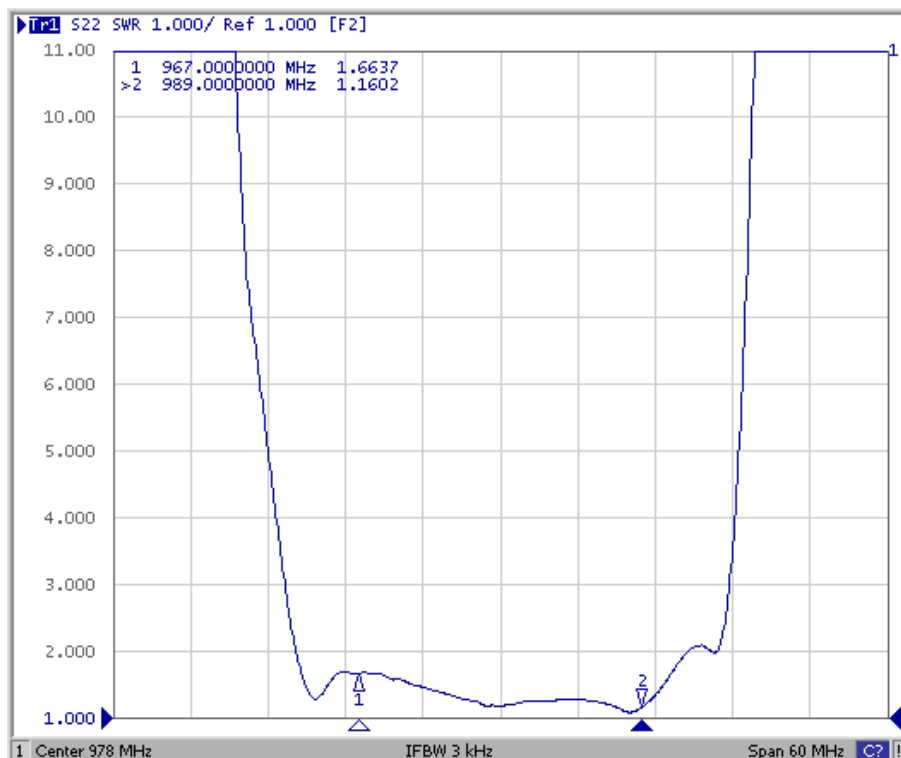
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Reflection Functions

S11



S22

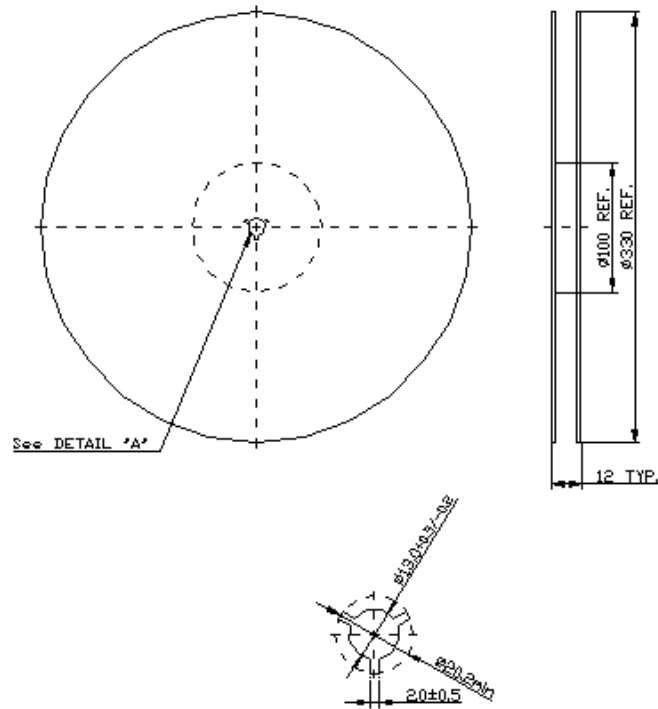


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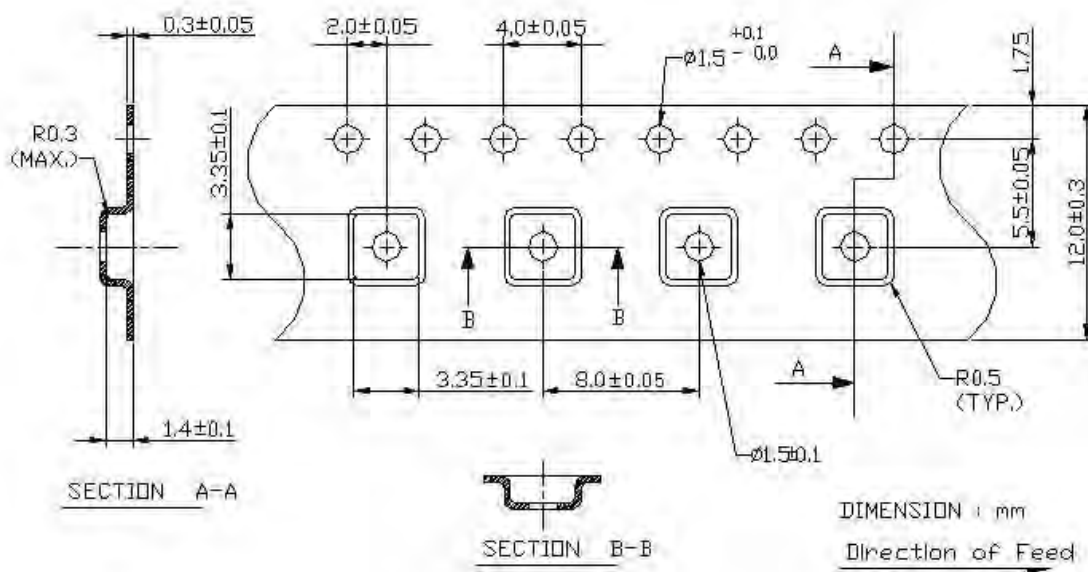
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**G. PACKING:**

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 245 ~ 260°C peak (min 10sec).
4. Time: 2 times.

