

**SAW Filter 2441.80MHz**

**Model: TA0223C**

**Part No: MP08773**

**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

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

**B. ELECTRICAL CHARACTERISTICS:**

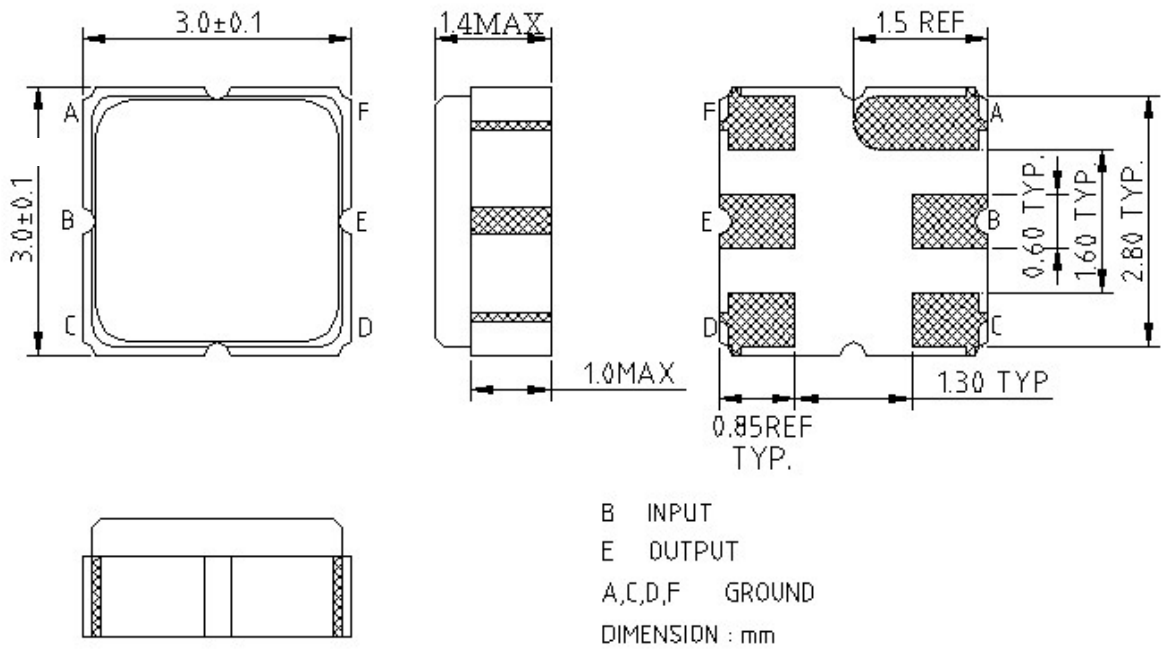
Item	Min.	Typ.	Max.
Center frequency Fc (MHz)	-	2441.8	-
Insertion loss (2400 ~ 2483.5MHz) IL (dB)	-	2.1	3.0
Amplitude ripple (2400 ~ 2483.5MHz) (dB)	-	0.9	2.3
Attenuation (Reference level from 0dB)			
D.C. ~ 1700MHz (dB)	20.0	29.0	-
1700 ~ 2200MHz (dB)	25.0	30.0	-
2700 ~ 3100MHz (dB)	30.0	40.0	-
3100 ~ 4000MHz (dB)	20.0	29.0	-
4000 ~ 5000MHz (dB)	10.0	20.0	-
VSWR (2400 ~ 2483.5MHz)	-	1.7	2.6
Human Body Model HBM (V)	-	200	-
Machine Model MM (V)	-	200	-
Source impedance Z <sub>S</sub> (Ω)	-	50	-
Load impedance Z <sub>L</sub> (Ω)	-	50	-

Note: The standard definitions is in JIS C 6703.

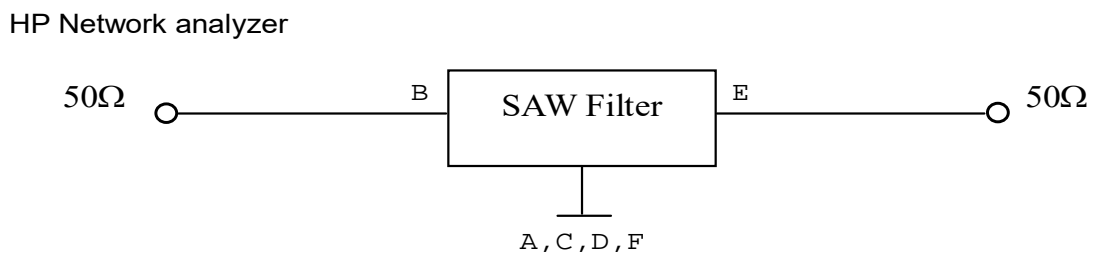
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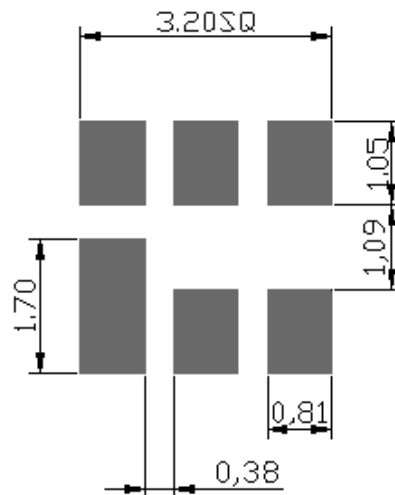
**C. OUTLINE DRAWING:**



**D. MEASUREMENT CIRCUIT:**



**E. PCB FOOTPRINT:**

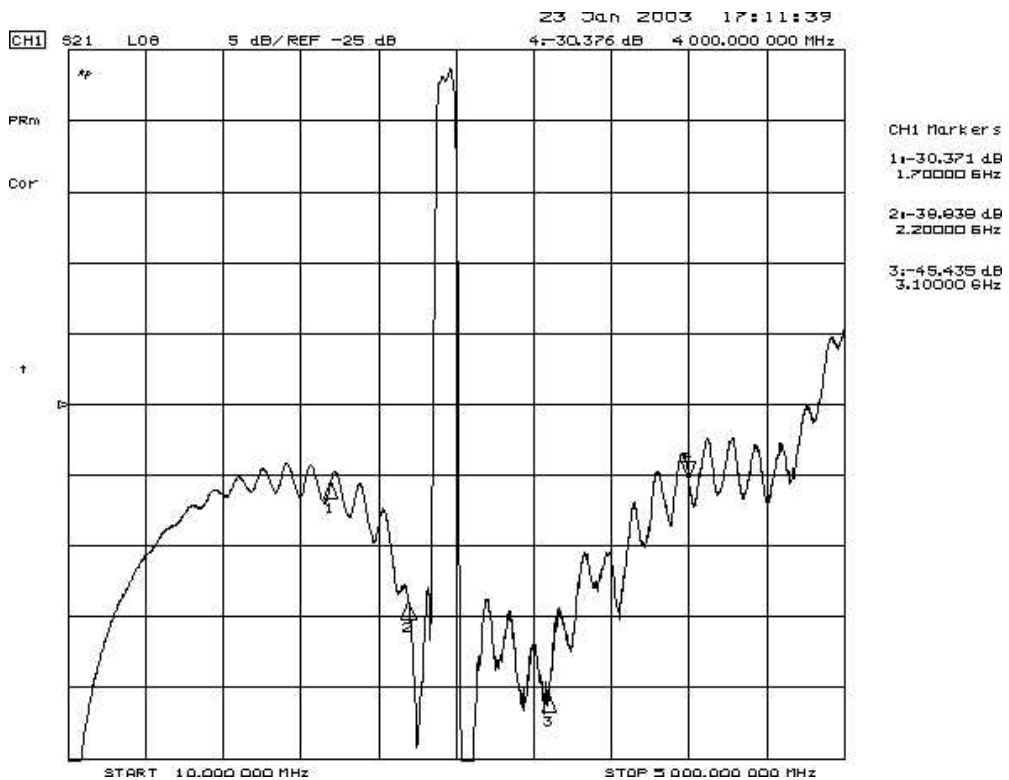
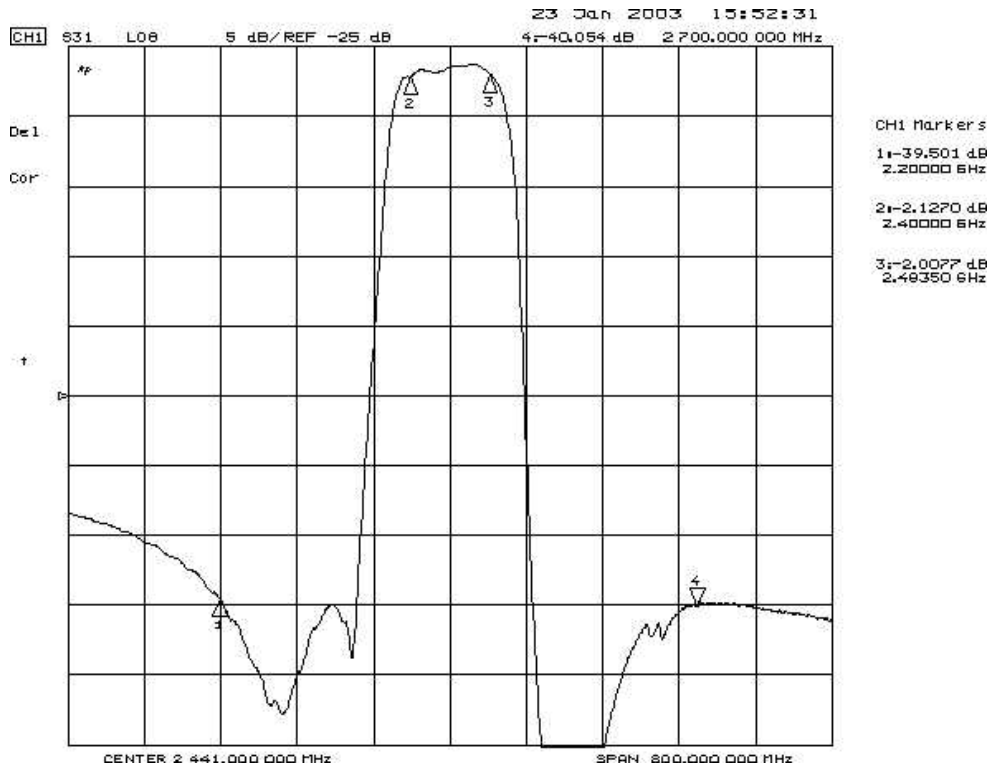


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**F. FREQUENCY CHARACTERISTICS:**

1. Transfer function

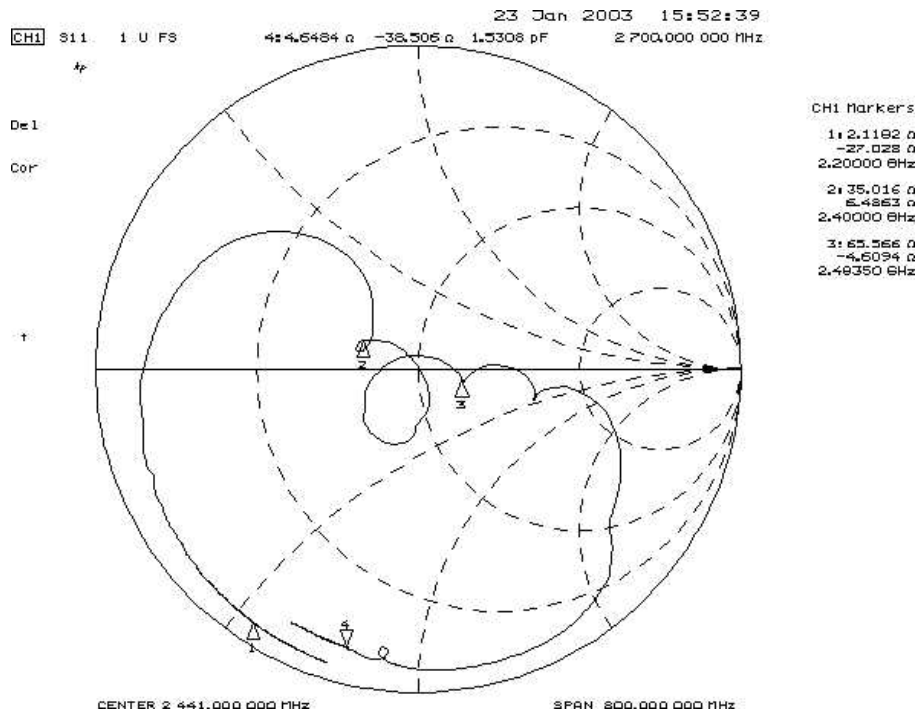
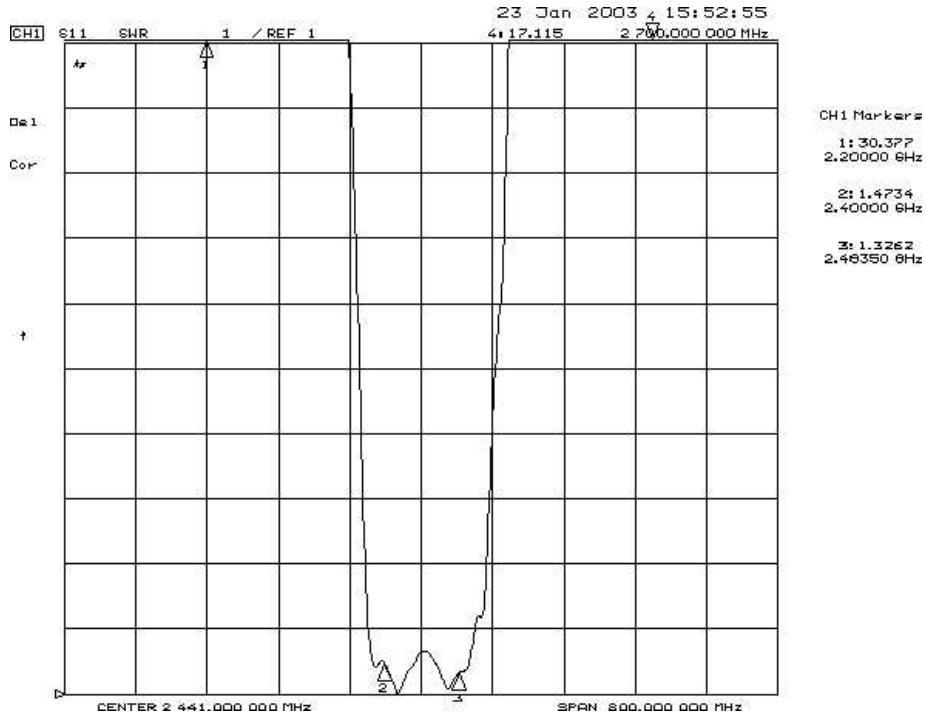


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2. Reflections Functions

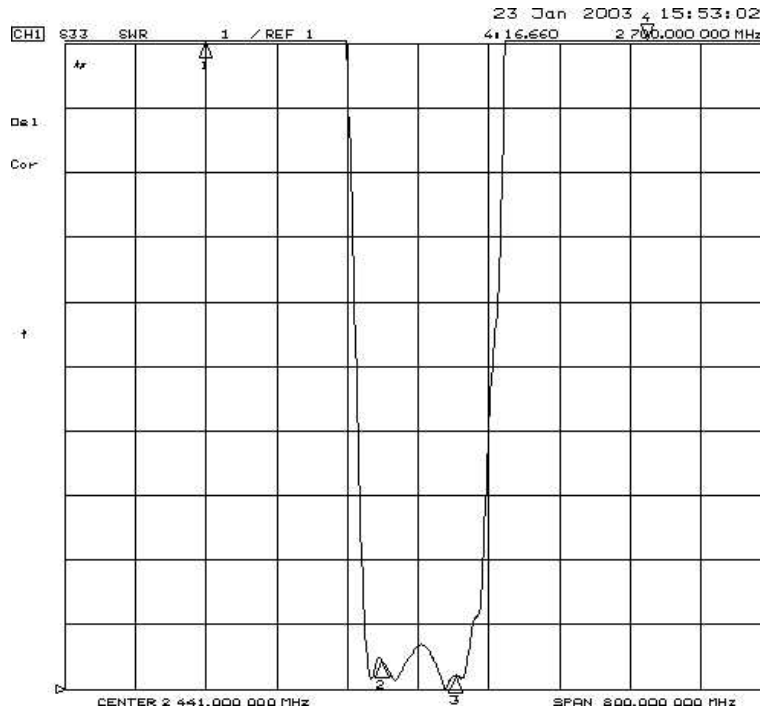
S11 VSWR



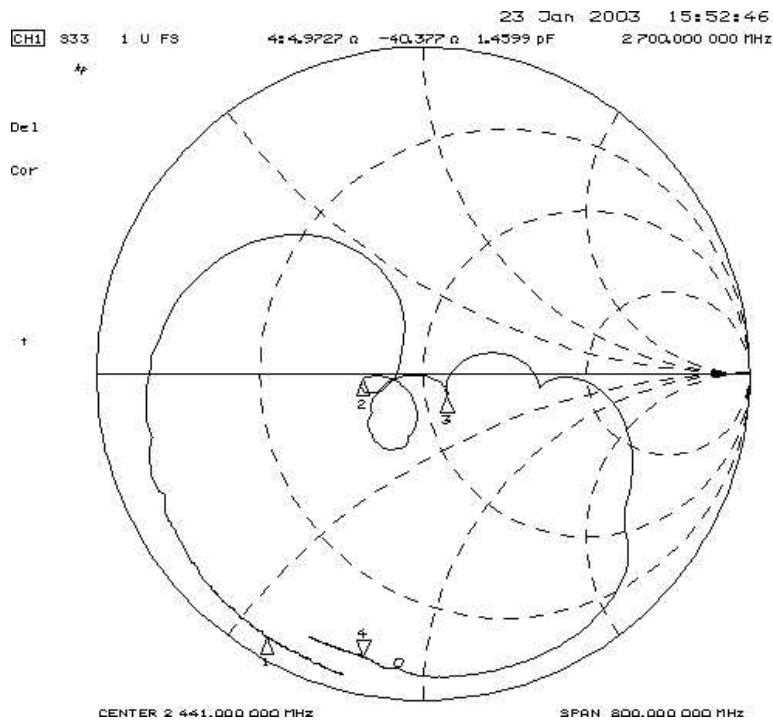
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**S22 VSWR**



CH1 Markers  
 1: 30.899  
 2: 20000 6Hz  
 2: 1.4509  
 2: 40000 6Hz  
 3: 1.2184  
 2: 48350 6Hz



CH1 Markers  
 1: 2.1310 0  
 -28.496 0  
 2: 20000 6Hz  
 2: 34.471 0  
 -1.0986 0  
 2: 40000 6Hz  
 3: 57.602 0  
 -7.5156 0  
 2: 48350 6Hz



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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. 10 sec).
4. Time: 2 times.

