

**SAW Filter 1128.0MHz**

**Model: TA1413B**

**Part No: MP08001 (AEC-Q200 Compliant)**

**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

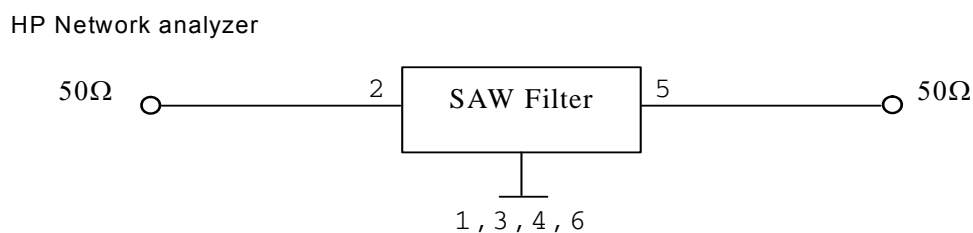
1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +125°C

**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 $F_c$	MHz	-	1128	-	-
Insertion Loss (1111 ~ 1145MHz)	dB	-	2.85	4	-
Amplitude Variation (1111 ~ 1145MHz)	dB	-	0.8	2	-
Amplitude Variation over 3MHz	dB	-	0.4	1	-
VSWR (1111 ~ 1145MHz)		-	2.1	2.4	-
Group Delay Variation over 3MHz	ns	-	5	20	-
Attenuation (reference level from 0dB)					
DC ~ 1090MHz	dB	30	47	-	-
1163 ~ 1190MHz	dB	6	19	-	-
1190 ~ 2000MHz	dB	30	44	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

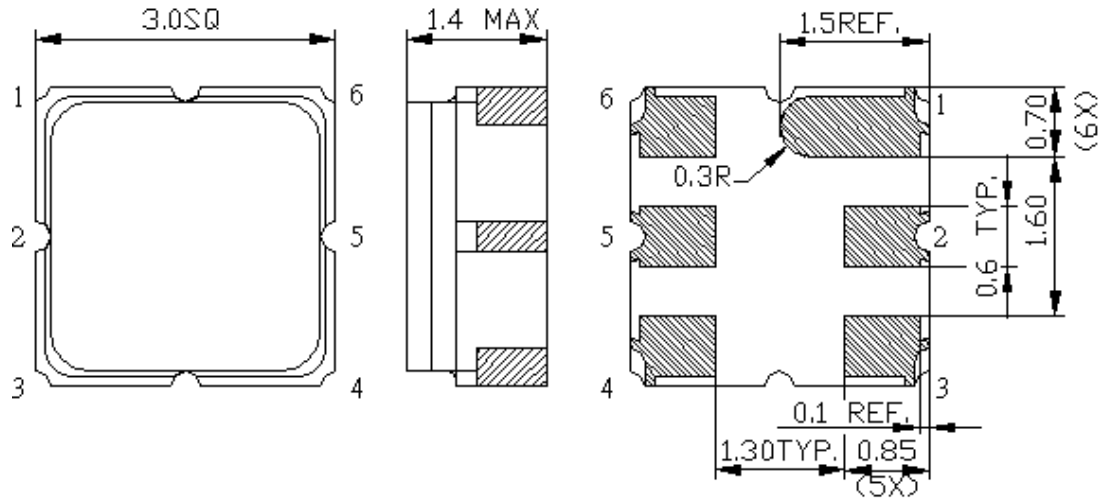
**C. MEASUREMENT CIRCUIT:**



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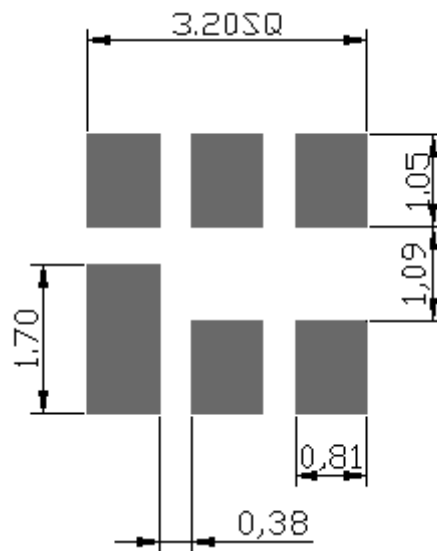
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**D. OUTLINE DRAWING:**



2: Input  
 5: Output  
 1, 3, 4, 6: Ground  
 Unit: mm

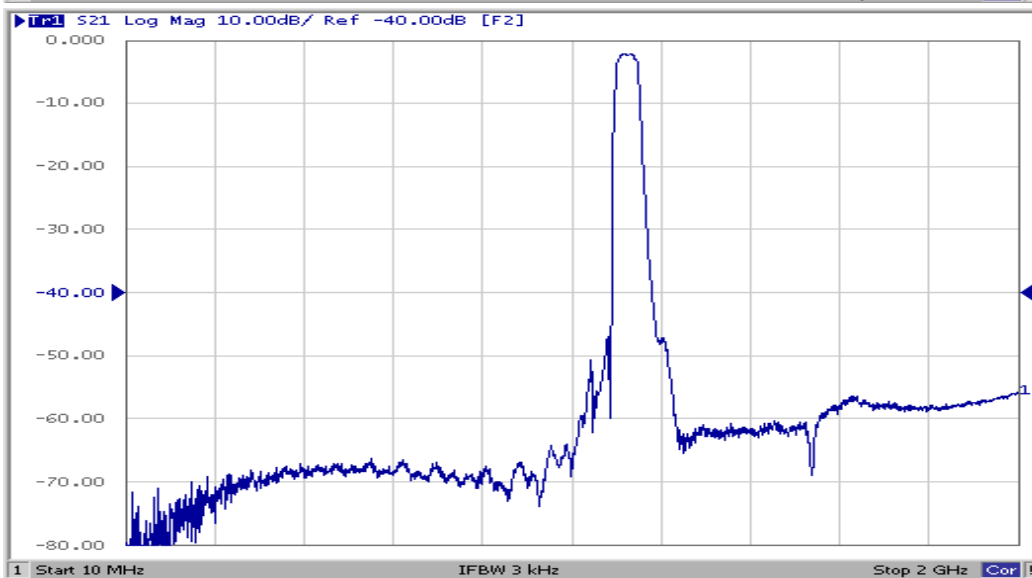
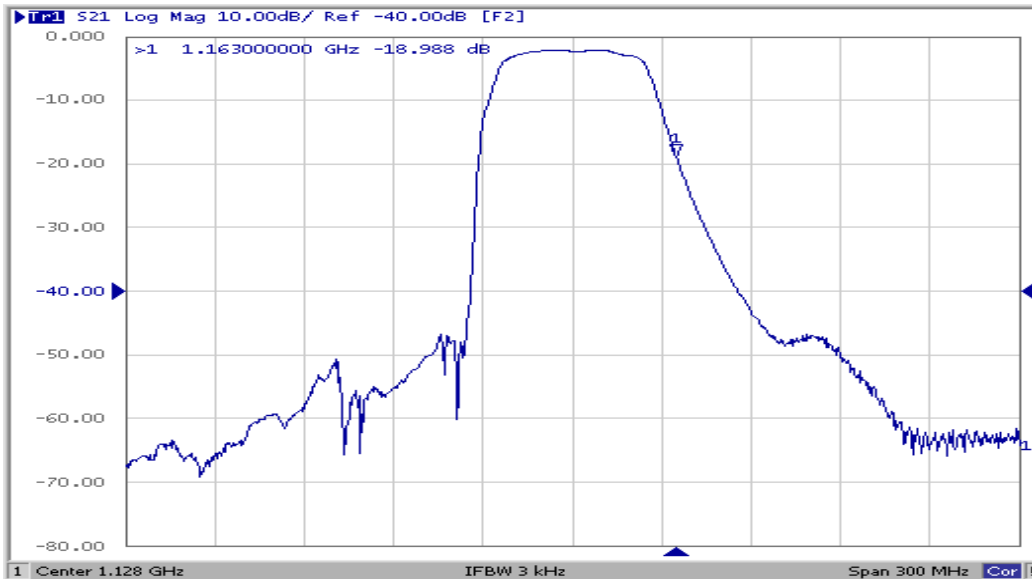
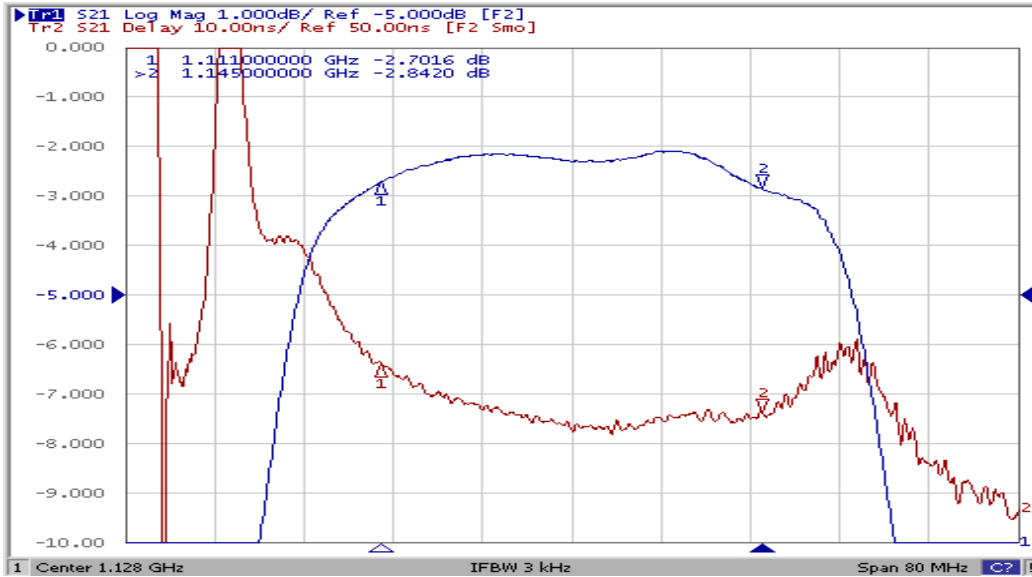
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

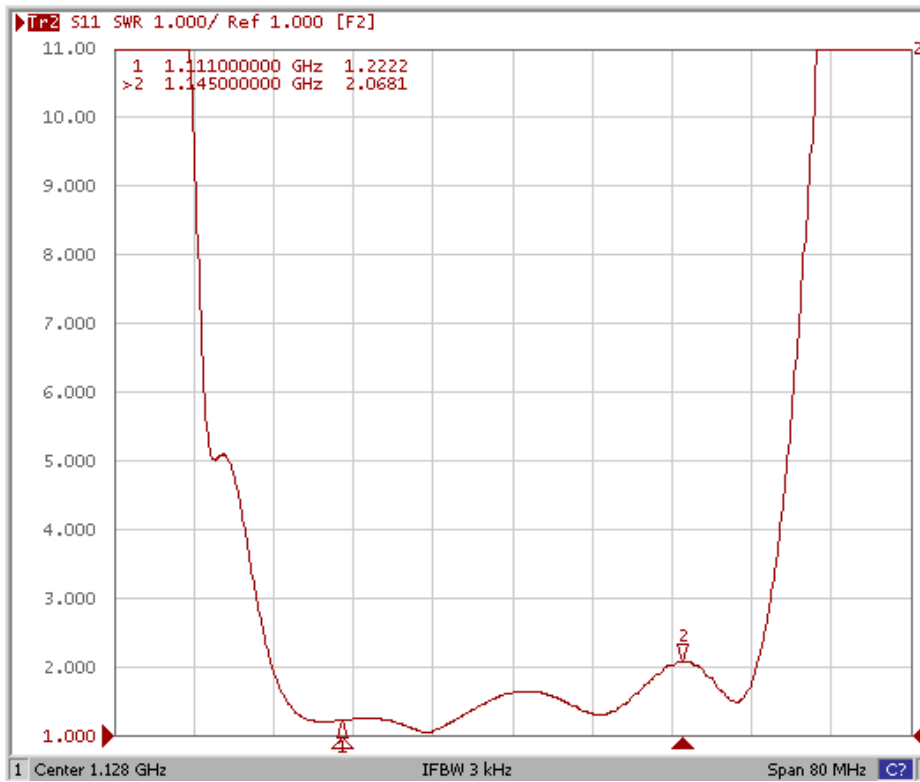


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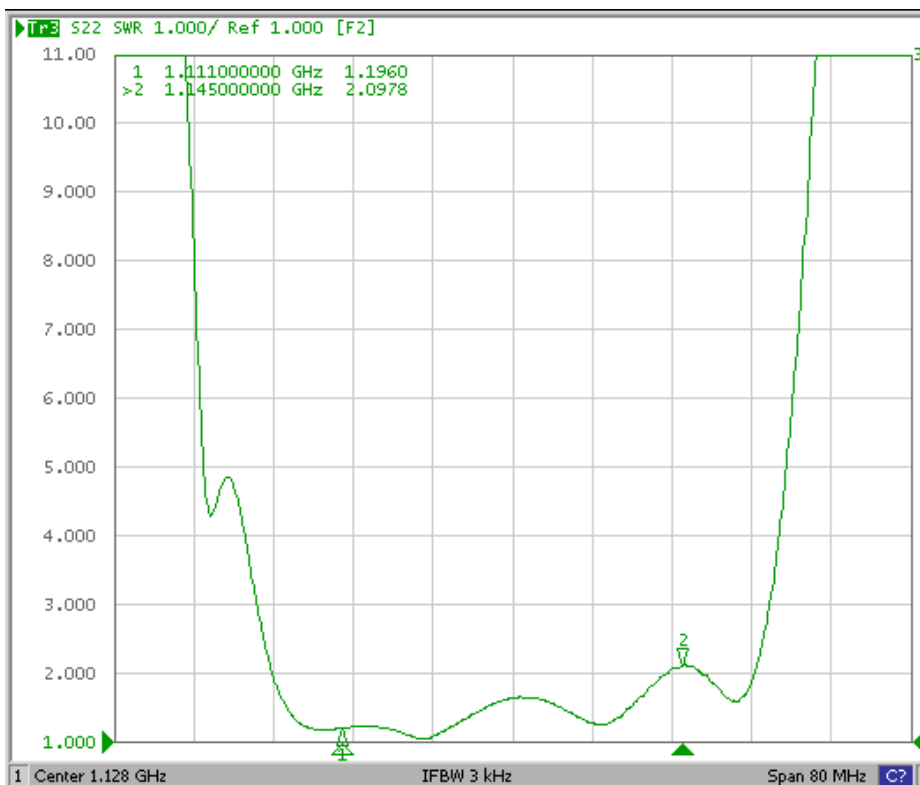
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Reflection Functions

S11



S22





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**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.

