

SAW Filter 1575.42 MHz
Part No: MA03368

Model: TA1575IG
REV. NO: 4

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: -50°C to +100°C
5. Moisture Sensitive Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

Item	Min	Typ.	Max
Center Frequency		1572.42dB	
Insertion Loss (1574.22 ~ 1576.62MHz)		1.5dB	2.0dB
Amplitude Ripple (1572.22 ~ 1576.62MHz)		0.15dB	1.0dB
Attenuation (Reference level from 0dB)			
DC ~ 1382MHz	37dB	40dB	
1382 ~ 1397MHz	40dB	47dB	
1397 ~ 1478MHz	40dB	45dB	
1478 ~ 1487MHz	40dB	47dB	
1487 ~ 1500MHz	30dB	52dB	
1625 ~ 1640MHz	30dB	49dB	
1640 ~ 2000MHz	38dB	42dB	
2000 ~ 3000MHz	33dB	38.5dB	
VSWR within 1574.22 ~ 1576.62MHz		1.1	2.0
Source impedance		50Ω	
Load impedance		50Ω	

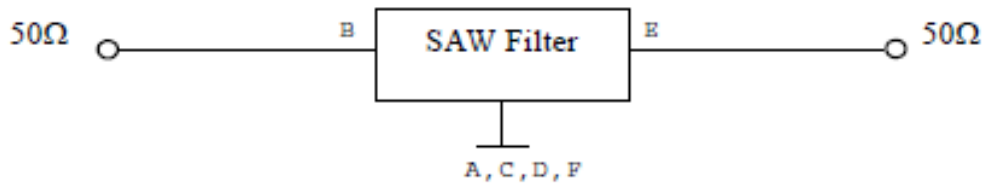
Note 1: No matching network required for operation at 50Ω

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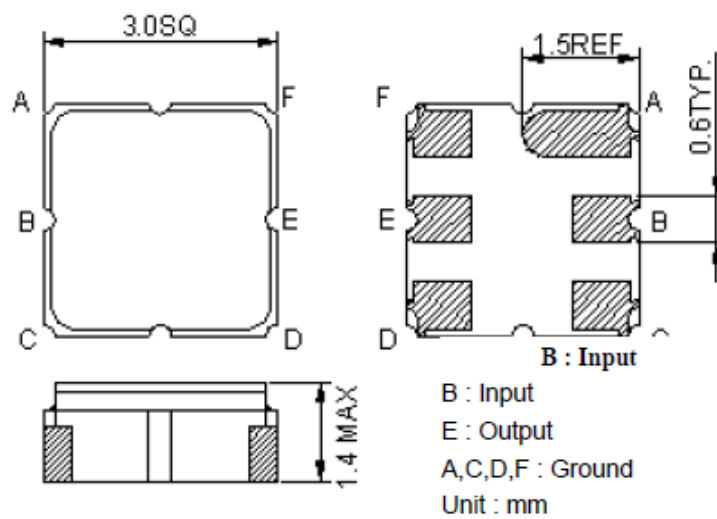
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C. MEASUREMENT CIRCUIT:

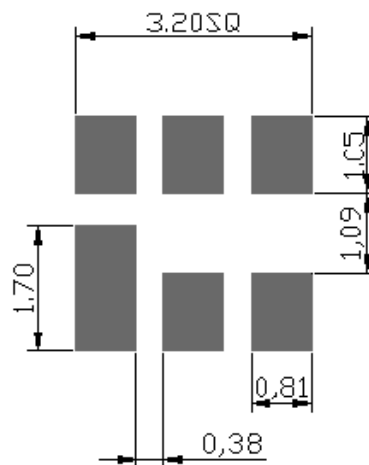
HP Network analyzer



D. OUTLINE DRAWING:



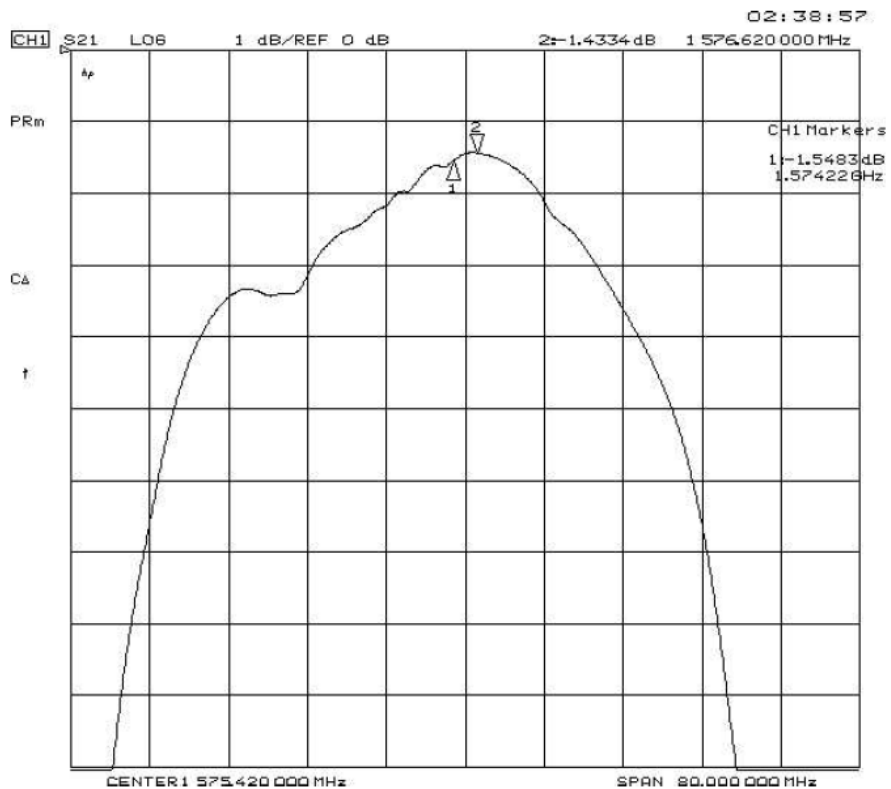
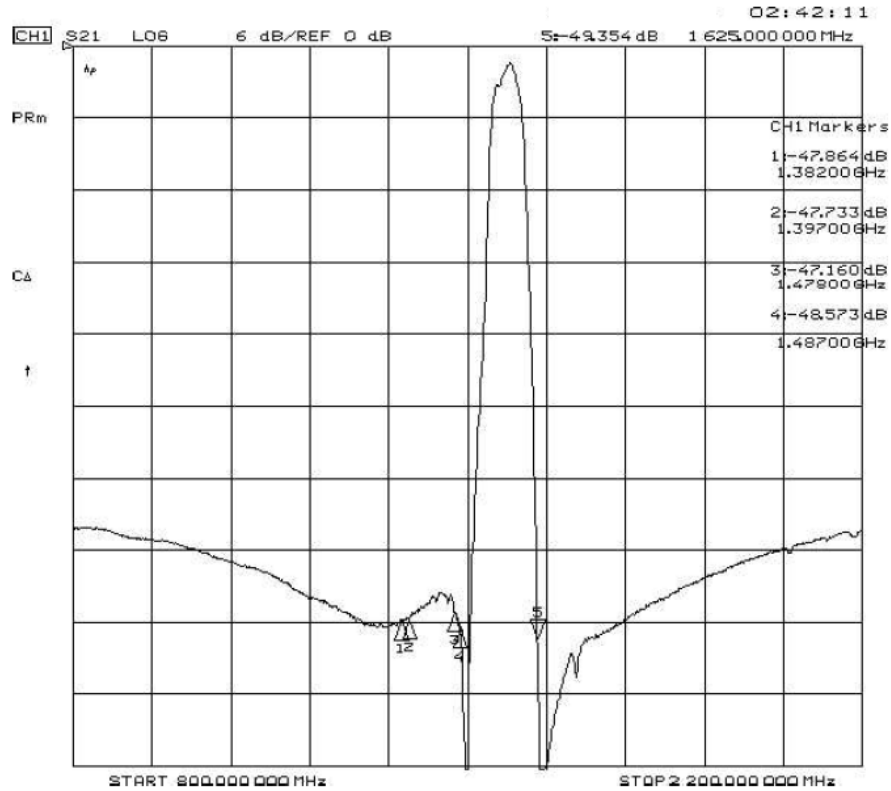
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

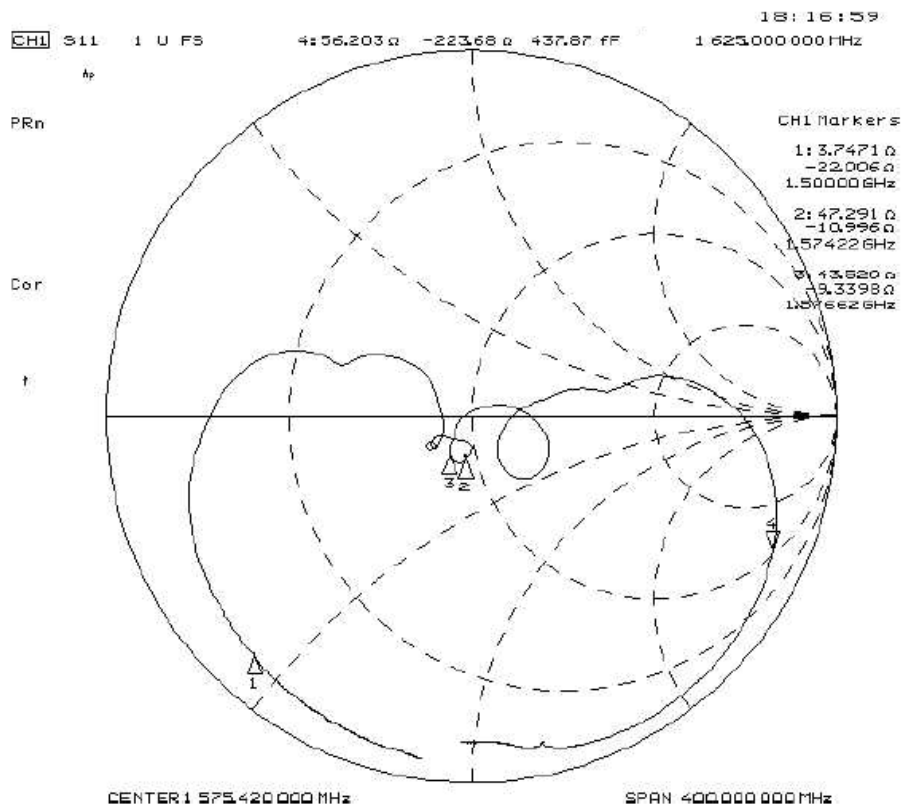
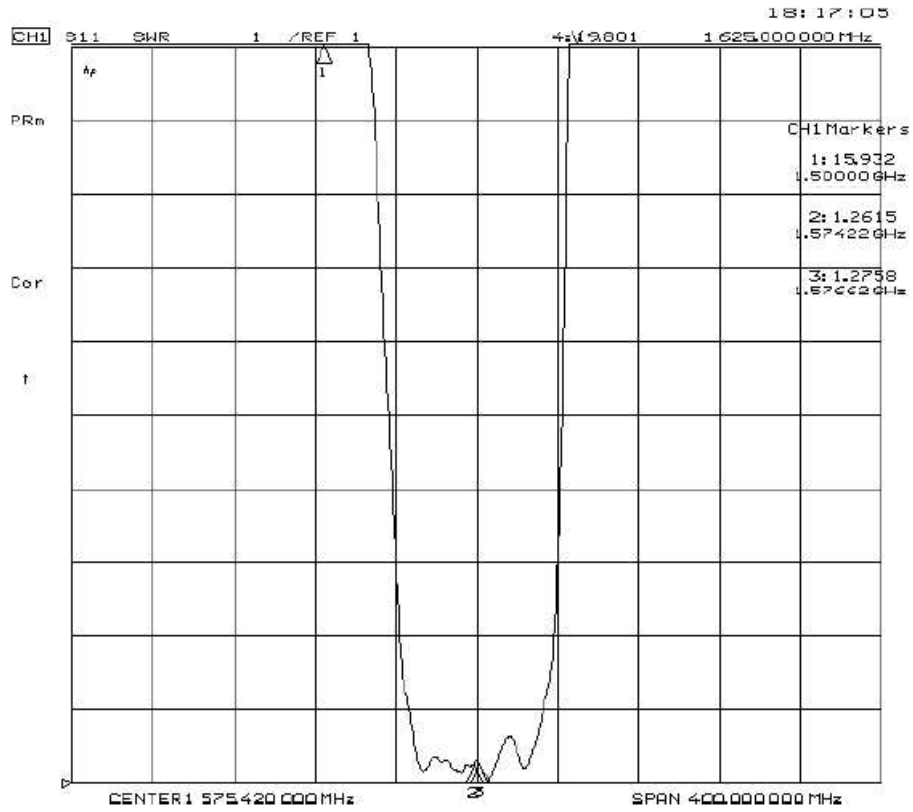


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Reflection Functions:

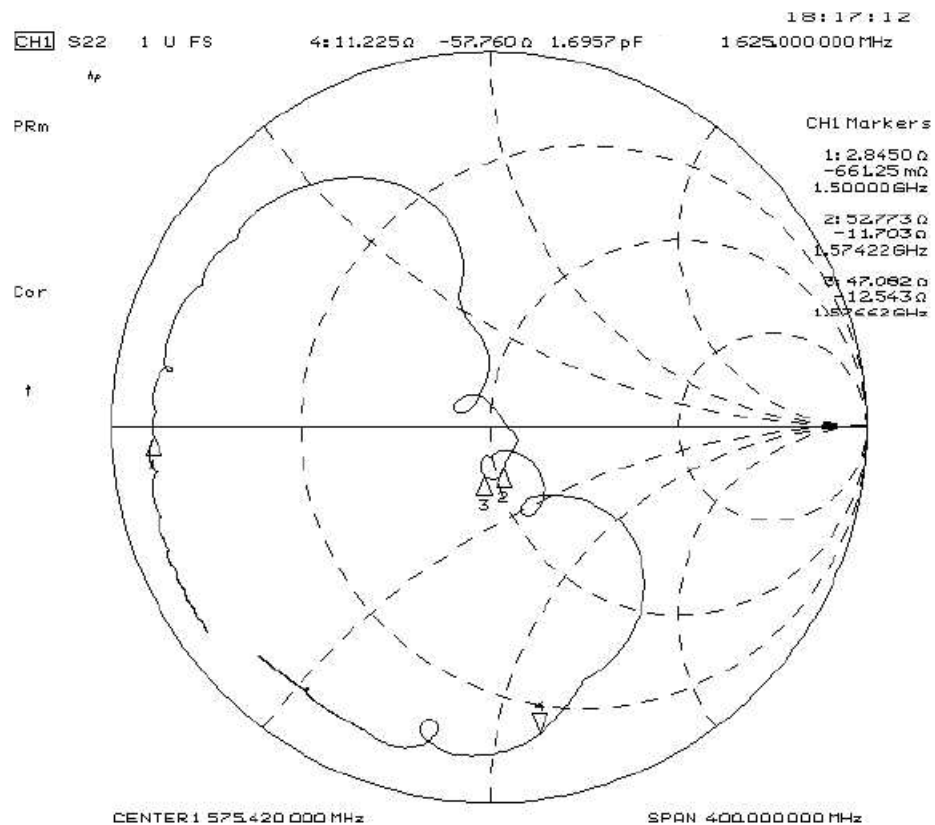
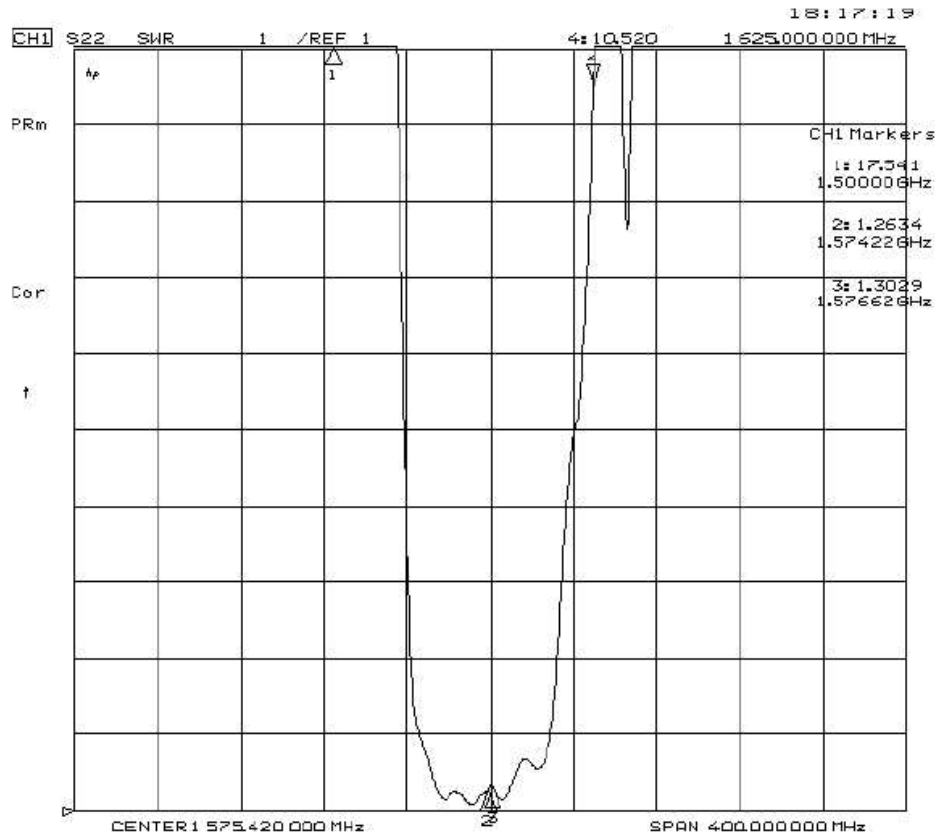
S11 VSWR



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S22 VSWR



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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.

