

SAW Filter 1649.50MHz

Model: TA1453A

Part No: MP04160

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 +70°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

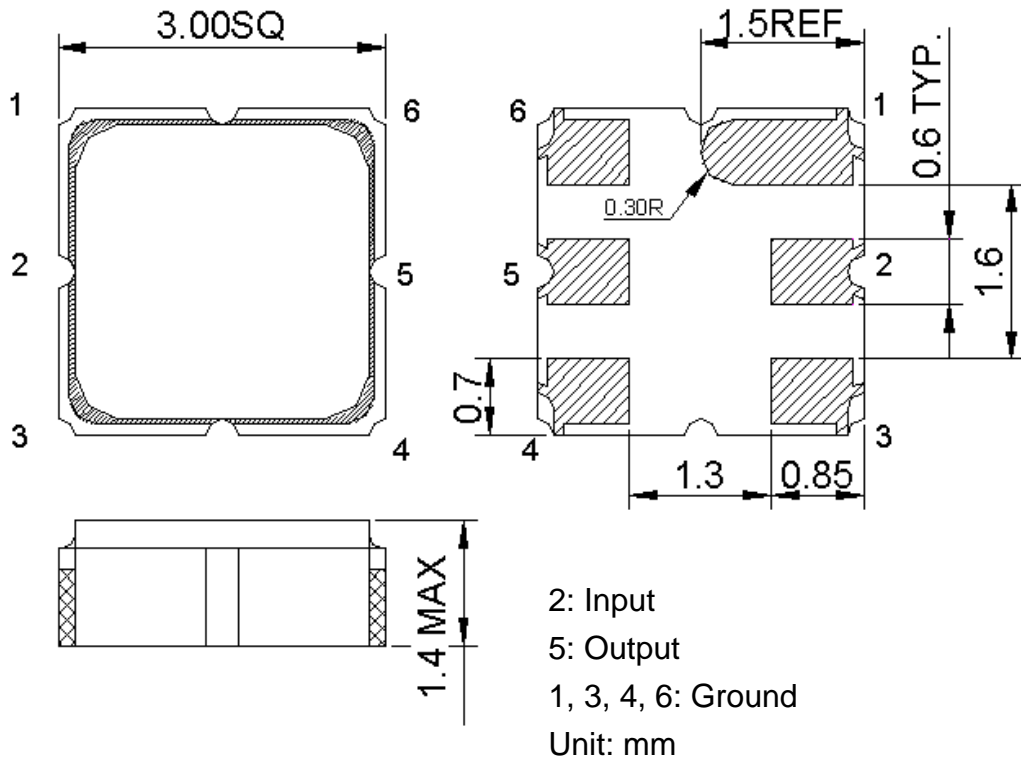
1. Terminating source impedance (single ended): $Z_S = 50\Omega$
2. Terminating load impedance (single ended): $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1649.5	-	-
Bandwidth	MHz	42	67	-	-
Insertion Loss (Fc ± 21MHz)	dB	-	4	5	
Amplitude Ripple (Fc ± 21 MHz)	dB	-	1.2	2	-
VSWR (Fc ± 21MHz)		-	1.7	2.5	-
Attenuation (reference level from 0dB)					
DC ~ 1576.5MHz	dB	40	49	-	-
1593MHz	dB	35	54	-	-
1593 ~ 1605MHz	dB	19	41	-	-
1751MHz	dB	25	44	-	-
2400 ~ 2500MHz	dB	40	44.5	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

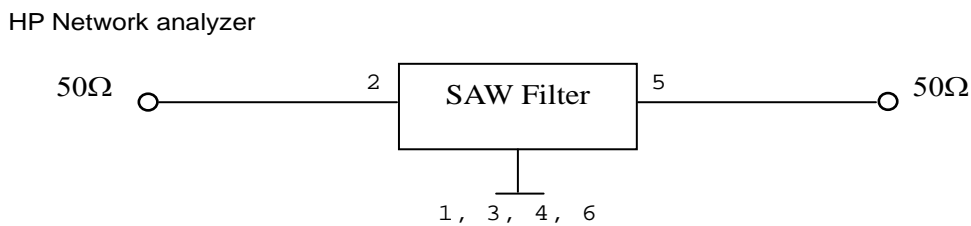
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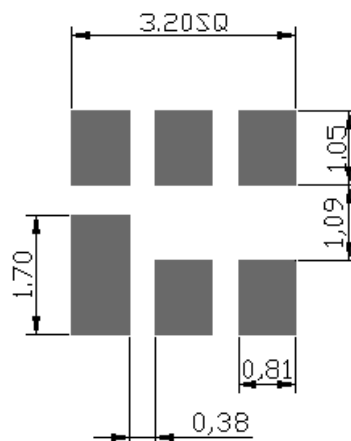
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



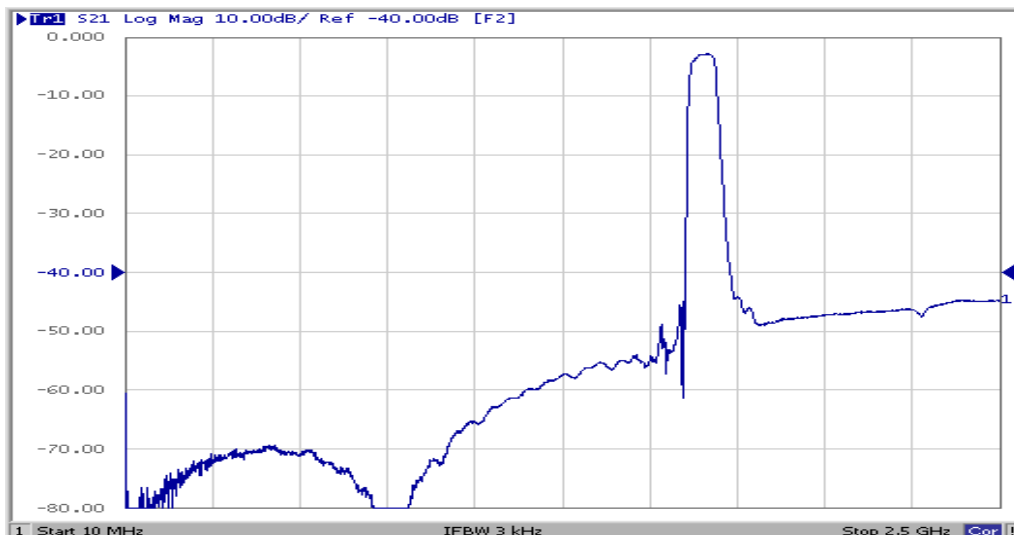
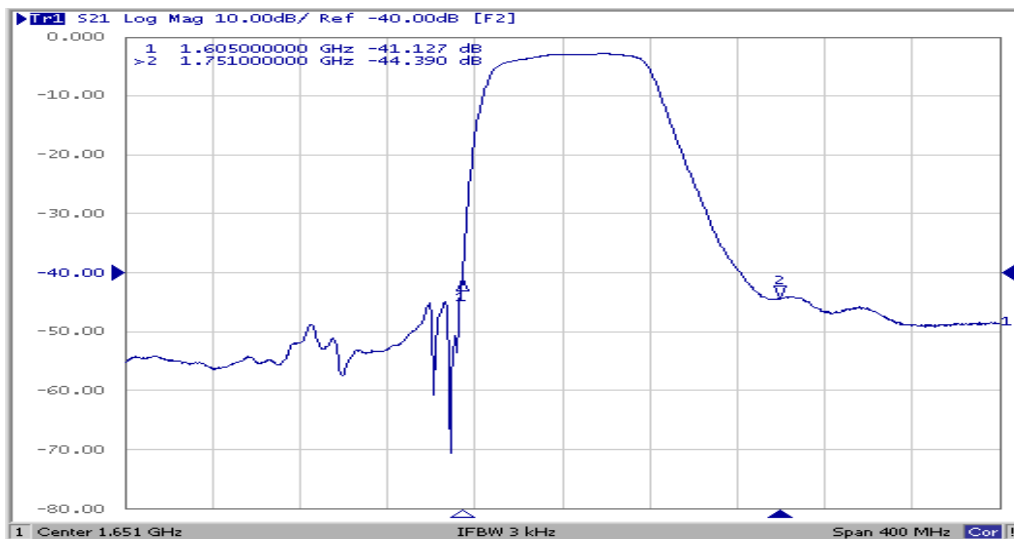
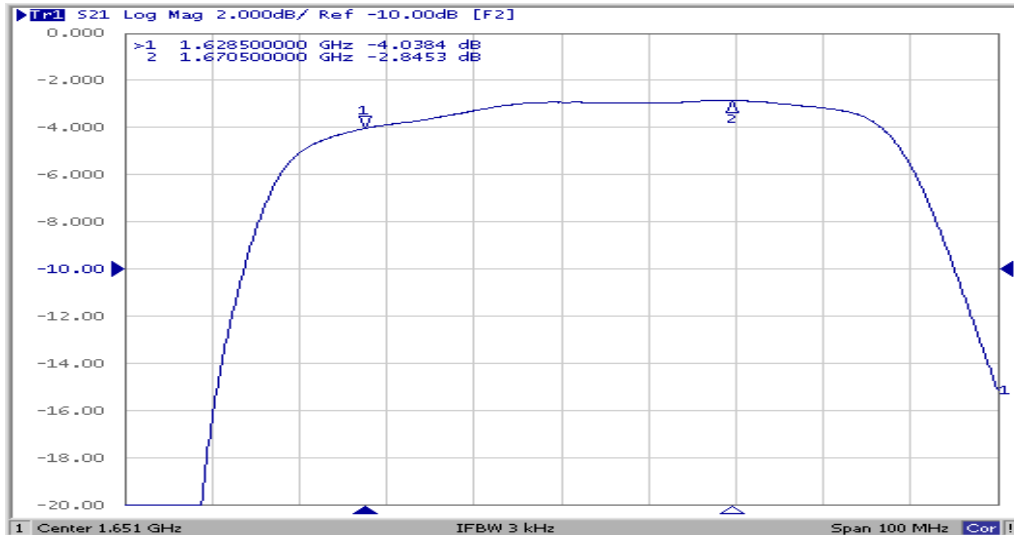
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

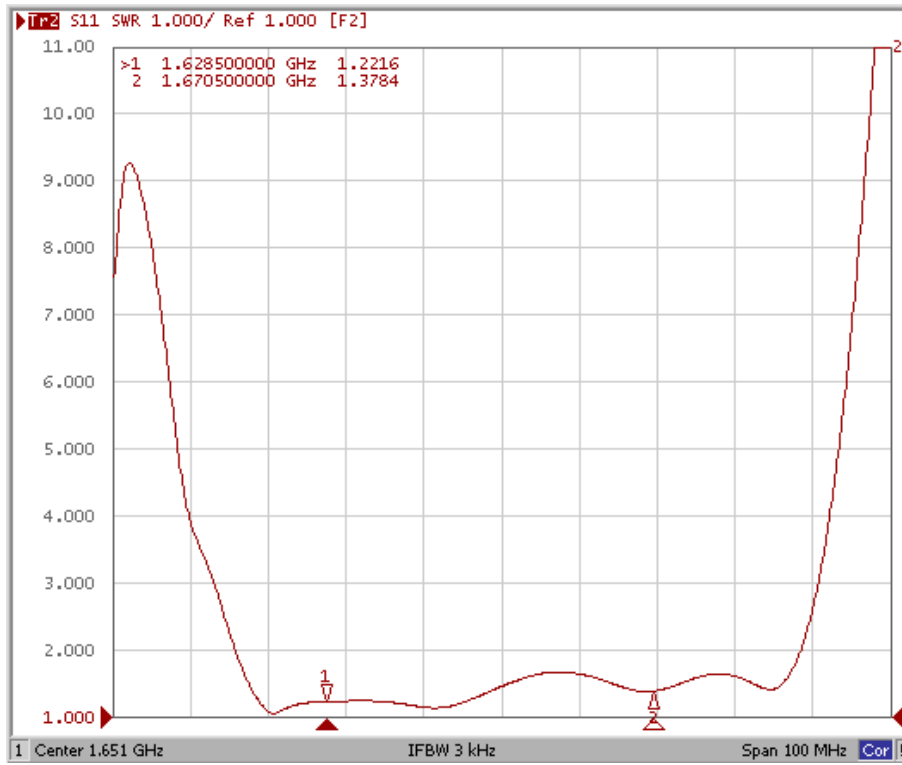


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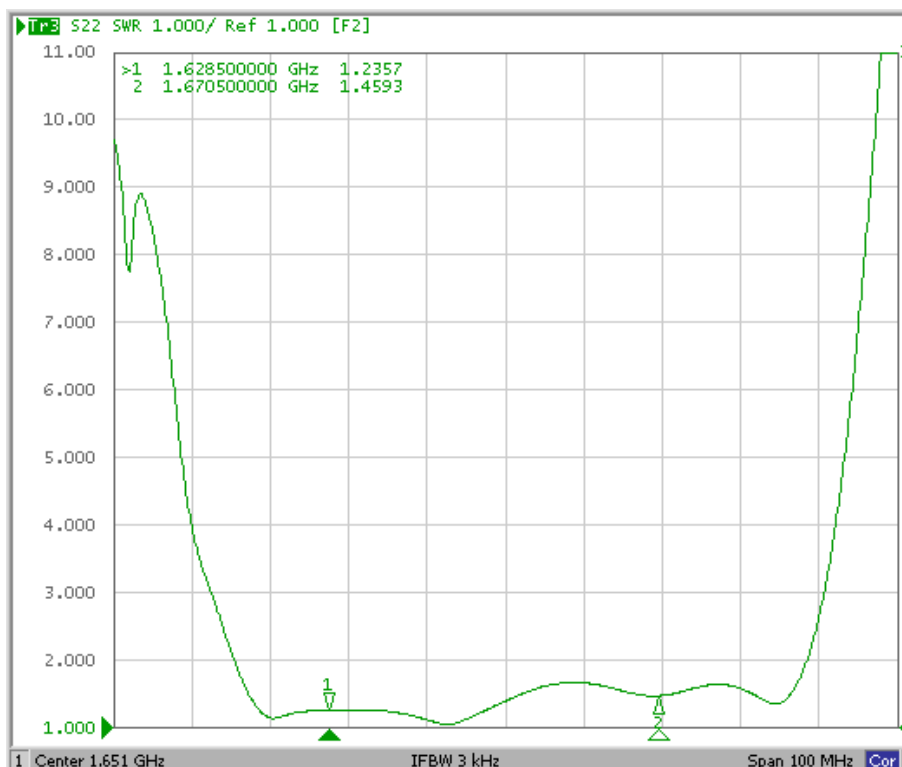
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Reflection Functions

S11



S22

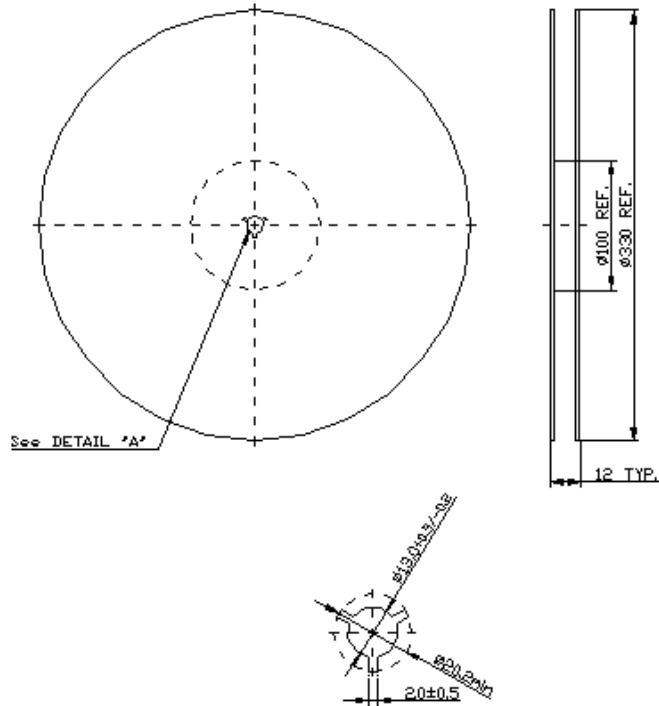


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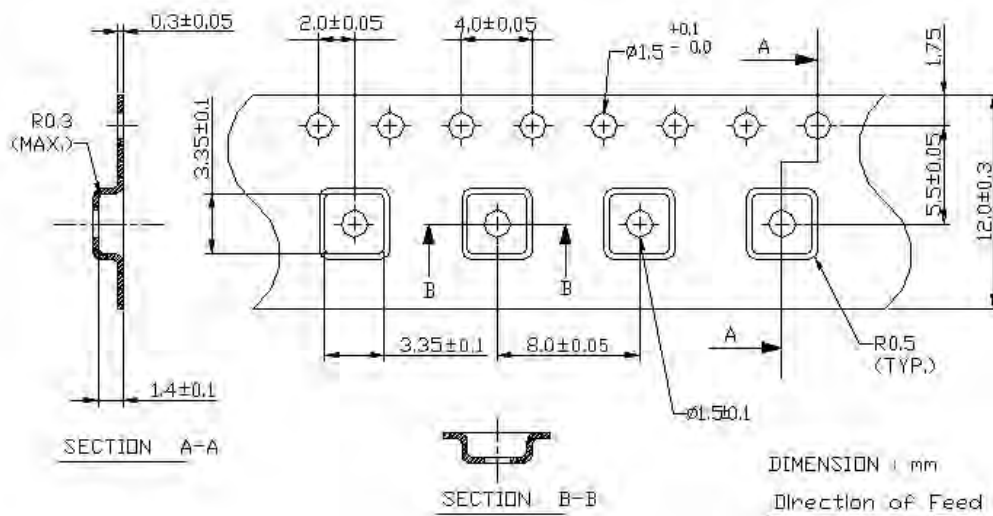
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G. PACKING:

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.

