

SAW Filter 1059.0MHz
Part No: MP03792

Model: TA1412A
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:

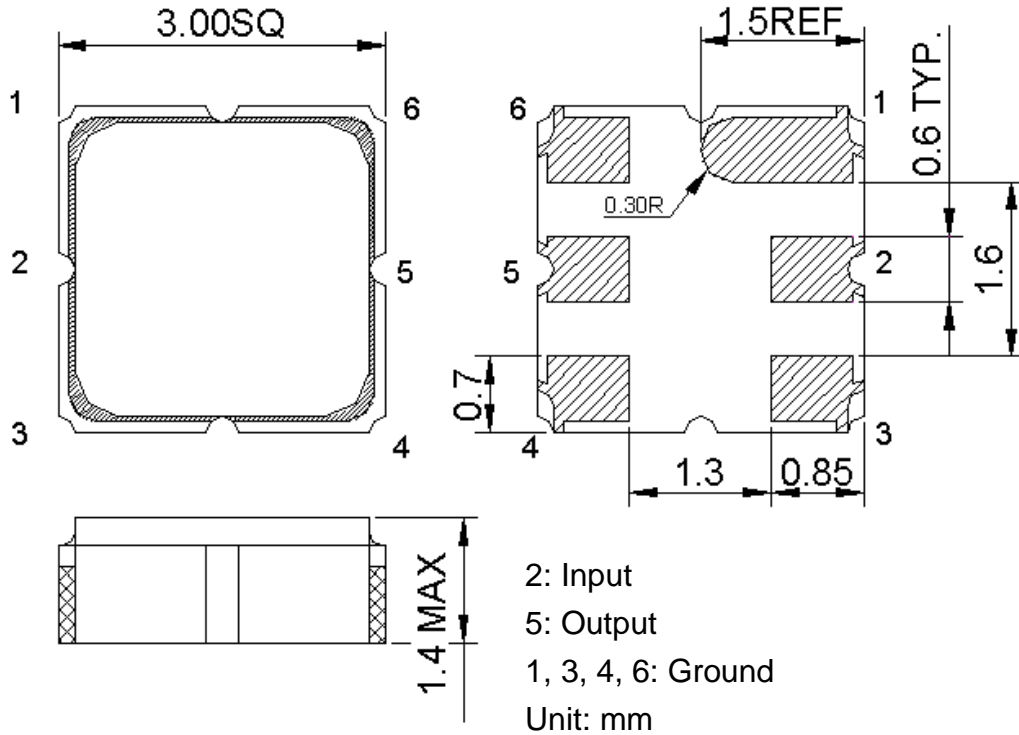
1. Terminating source impedance (single ended): $Z_S = 50\Omega$
2. Terminating load impedance (single ended): $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	1059	-	-
Insertion Loss (1051 ~ 1067MHz)	dB	-	1.7	3	-
Amplitude Variation (1051 ~ 1067MHz)	dB	-	0.65	2	-
Amplitude Variation over 3MHz	dB	-	0.5	1	-
VSWR (1051 ~ 1067MHz)		-	1.7	2.4	-
Group Delay Variation over 3MHz	ns	-	7	20	-
Attenuation (reference level from 0dB)					
DC ~ 1030MHz	dB	30	35.5	-	-
1030 ~ 1034MHz	dB	15	24	-	-
1084 ~ 1088MHz	dB	15	37	-	-
1088 ~ 2000MHz	dB	30	37	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

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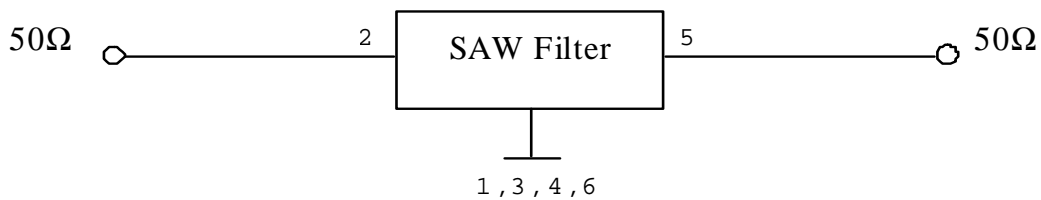
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C. OUTLINE DRAWING:

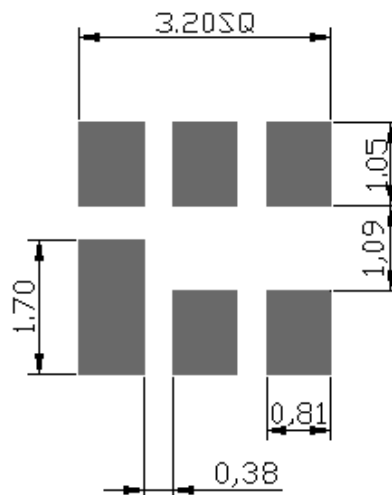


D. MEASUREMENT CIRCUIT:

HP Network analyzer



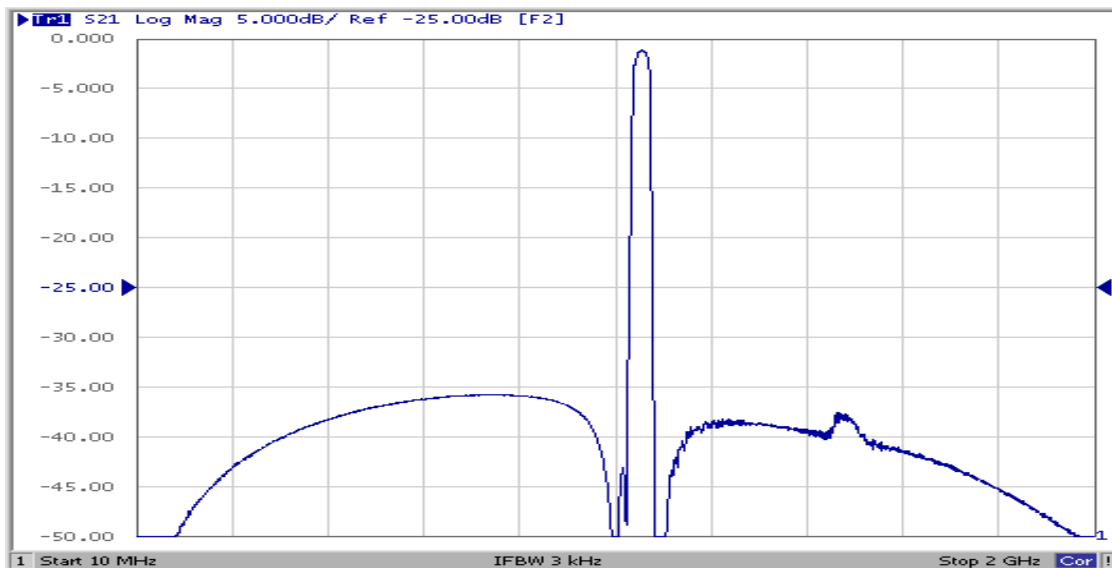
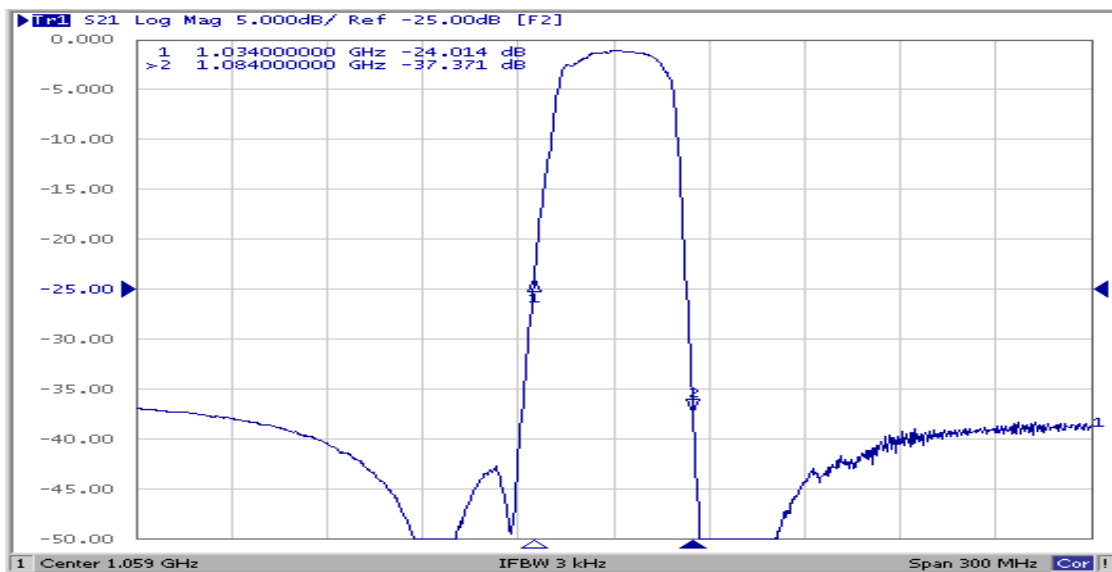
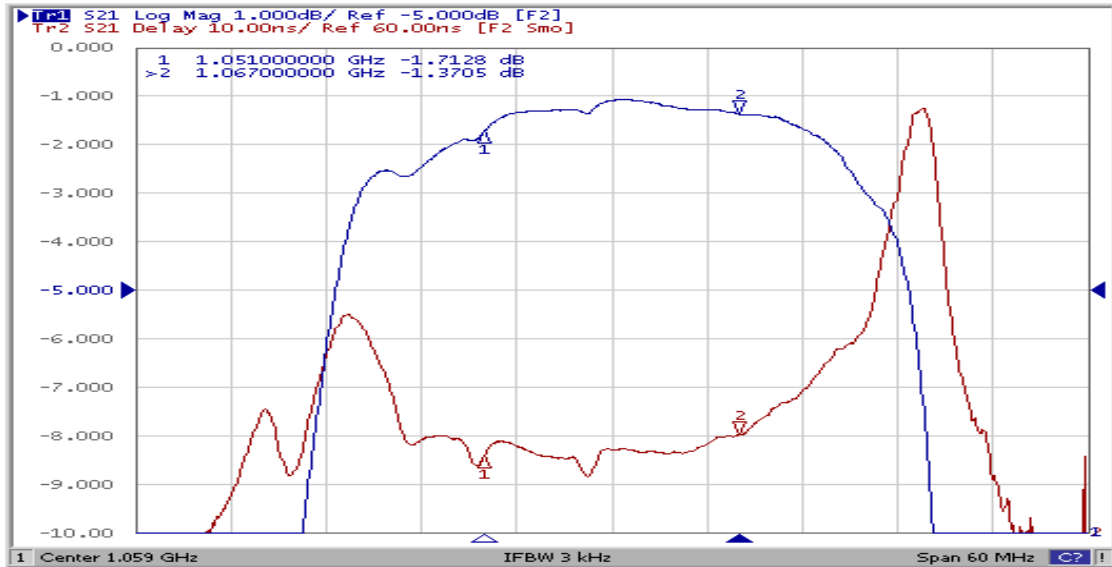
E. PCB FOOTPRINT:



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F. FREQUENCY CHARACTERISTICS:

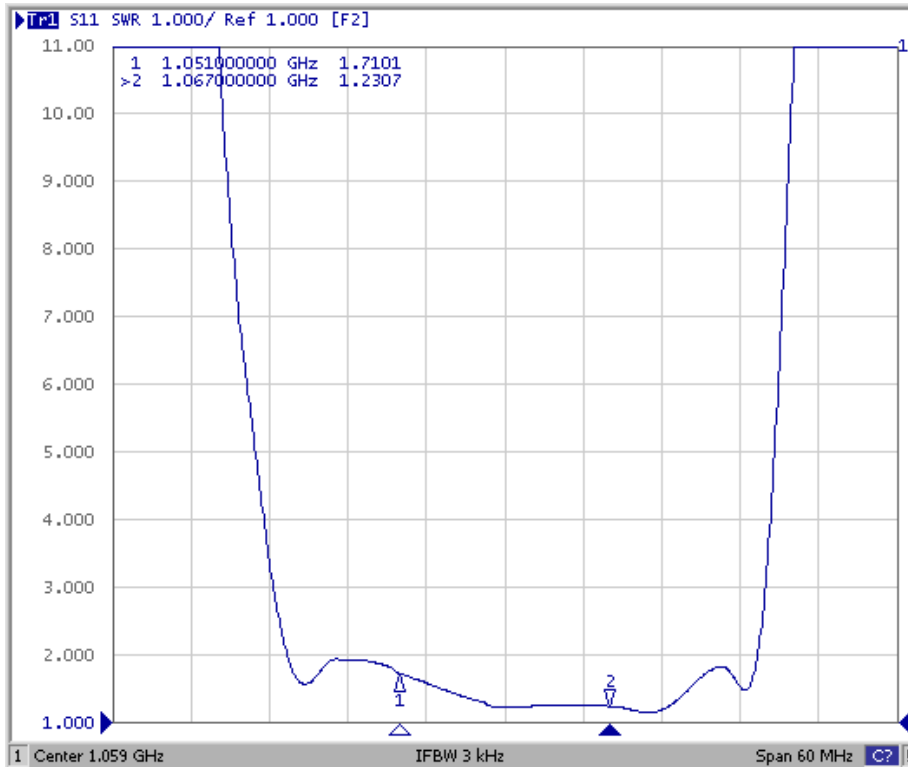


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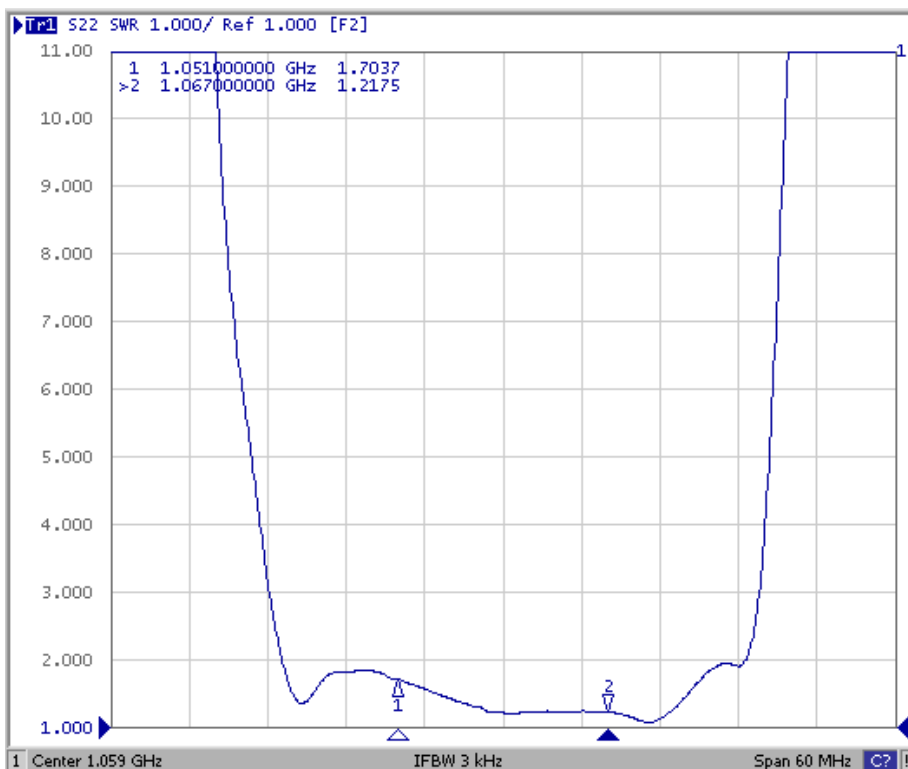
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Reflection Functions

S11



S22

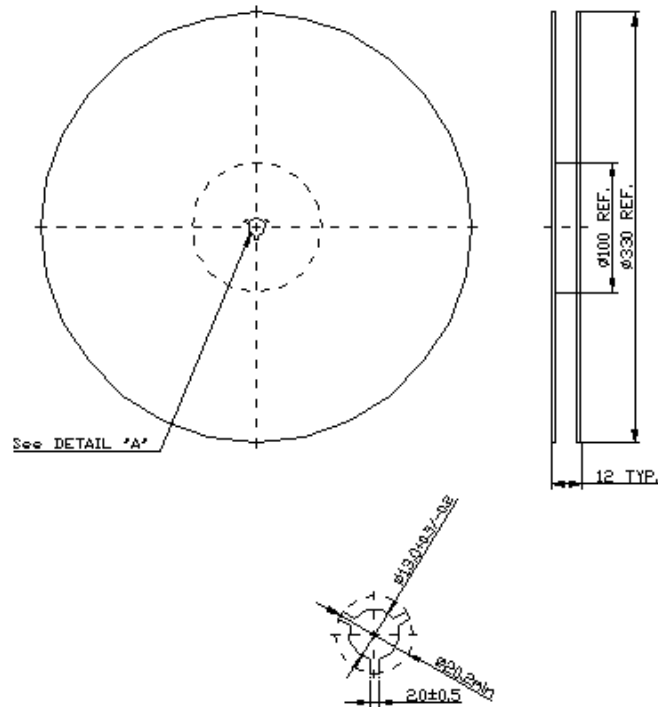


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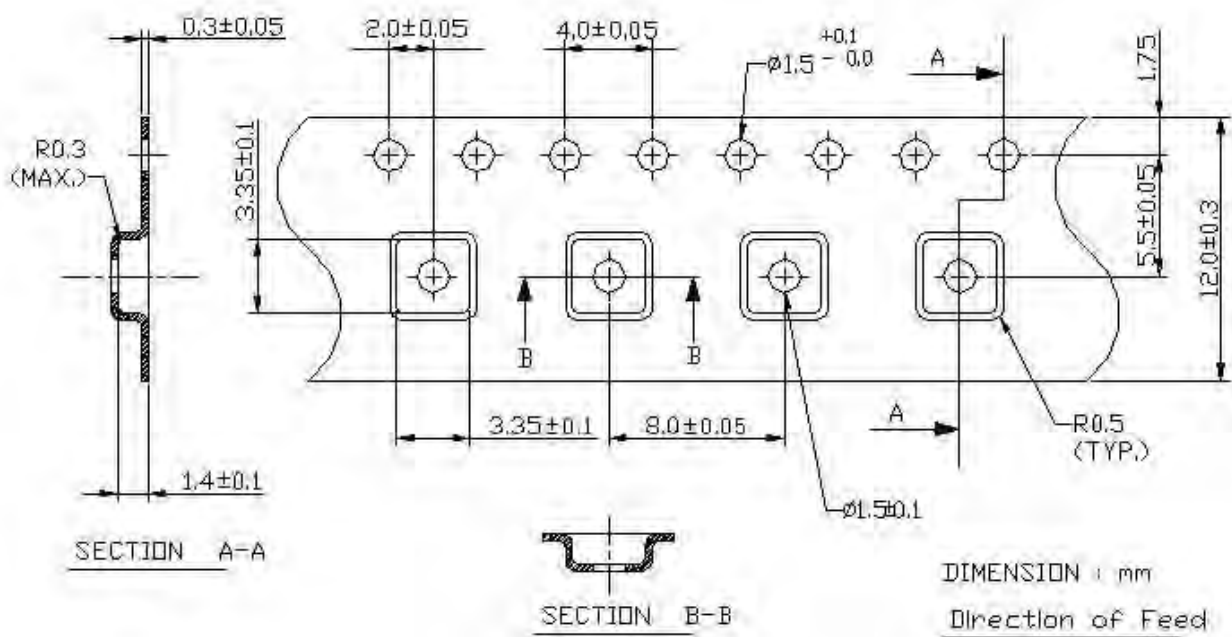
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G. PACKING:

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.

