

SAW Filter 1457.0MHz
Part No: MP09704

Model: TA2432A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: $Z_S = 50\Omega$
2. Terminating load impedance: $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max
Center frequency	MHz	-	1457	-
Insertion Loss (1447 ~ 1467MHz)	dB	-	1.5	3.0
Amplitude ripple (1447 ~ 1467MHz)	dB	-	0.4	1.5
VSWR (1447 ~ 1467MHz)	ns	-	1.3	2.0
Attenuation (Reference level from 0dB)				
0010 ~ 1300MHz	dB	30	35	-
1300 ~ 1350MHz	dB	35	42	-
1350 ~ 1415MHz	dB	20	27	-
1500 ~ 1559MHz	dB	40	45	-
1559 ~ 1607MHz	dB	35	42	-
1607 ~ 2000MHz	dB	30	42	-
2000 ~ 3000MHz	dB	30	33	-
Temperature coefficient of frequency	ppm/°C	-	-36	-

Notes:

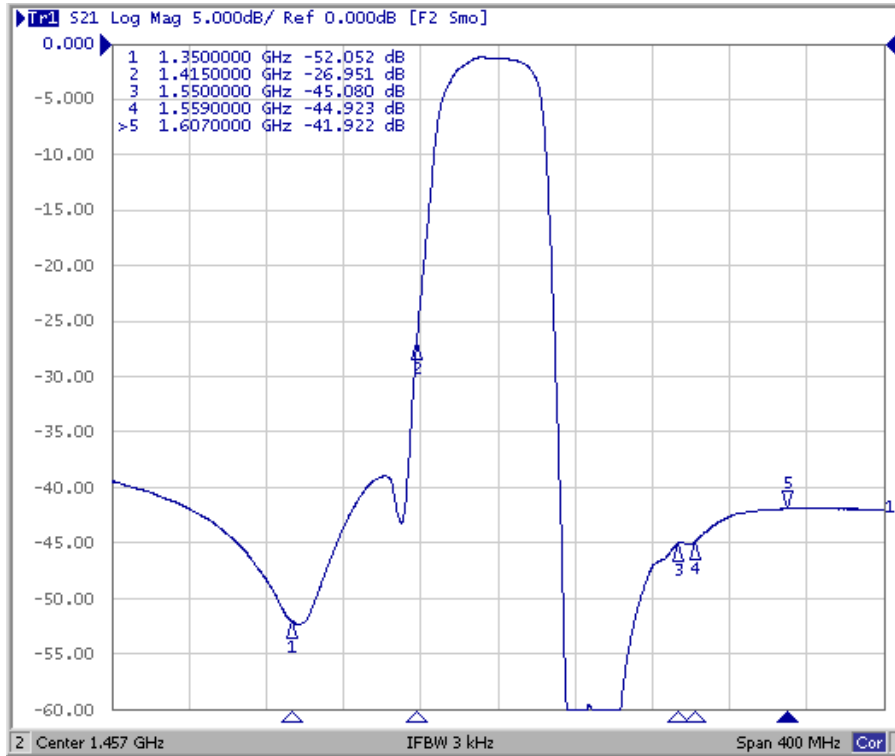
1. In production, devices will be tested at room temperature to a guard banded specification to ensure electrical compliance over temperature.
2. Typical values are based on average measurements at room temperature.

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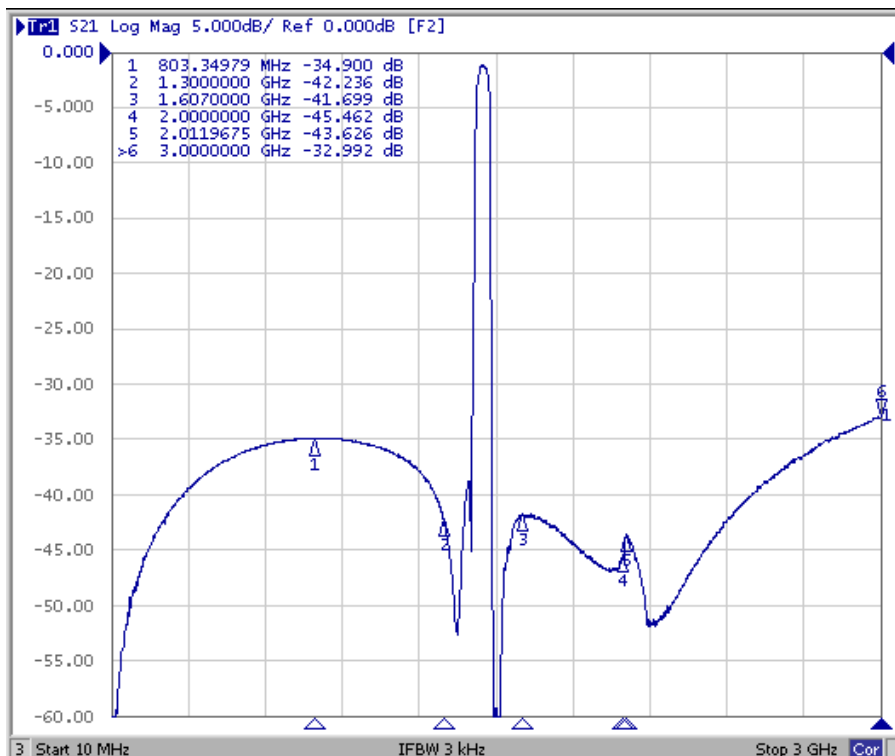
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C. FREQUENCY CHARACTERISTICS:

1. Span 400MHz



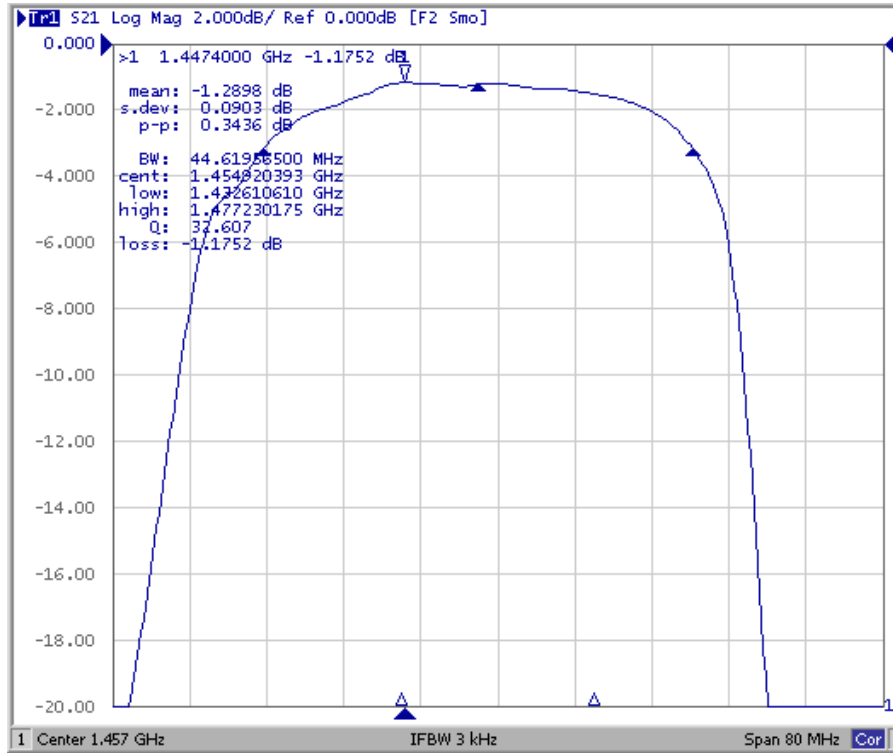
2. Span 3000MHz



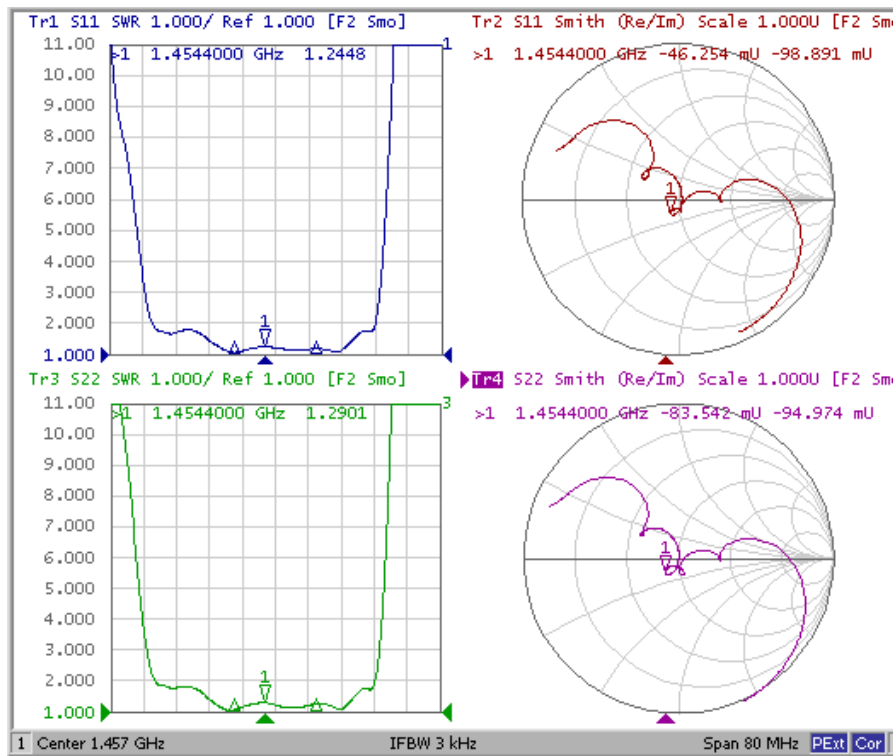
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3. Span 80 MHz



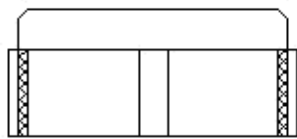
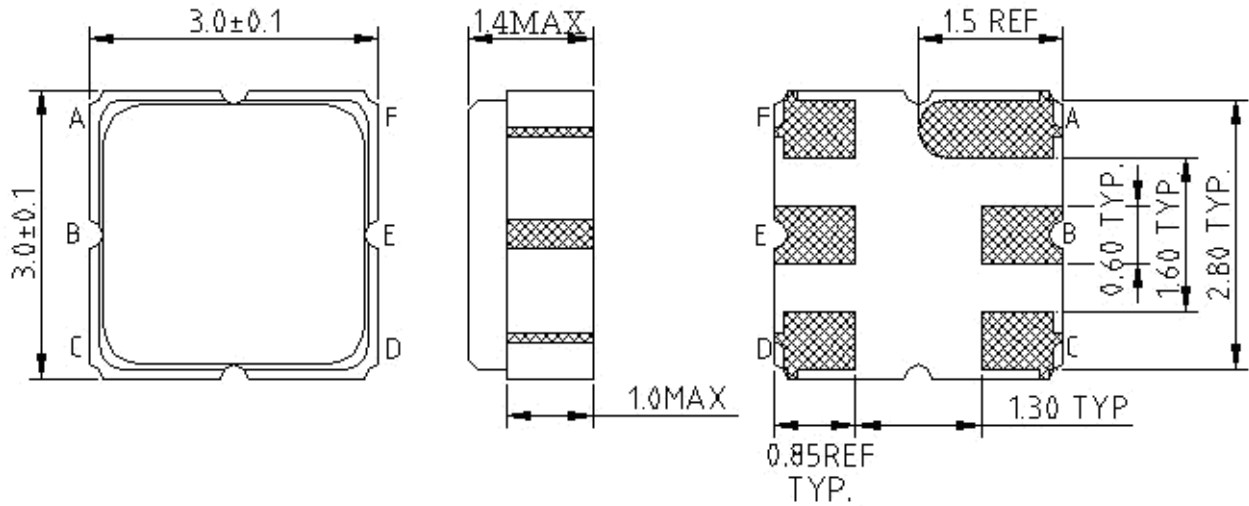
4. Reflection Respond (VSWR, Smith Chart) Span 80MHz



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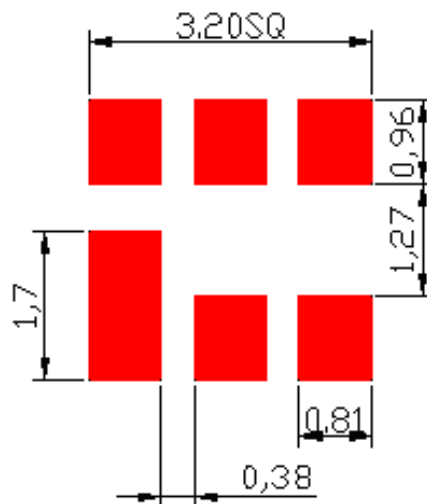
D. MEASUREMENT CIRCUIT:



B: Input
 E: Output
 A, C, D, F: Ground
 Unit: mm

T
 GROUND
 : mm

E. PCB FOOTPRINT:

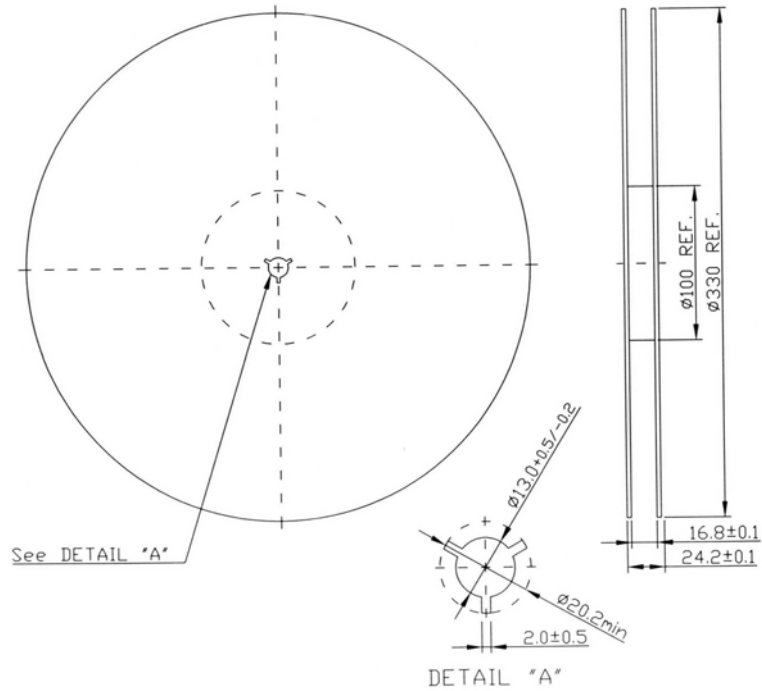


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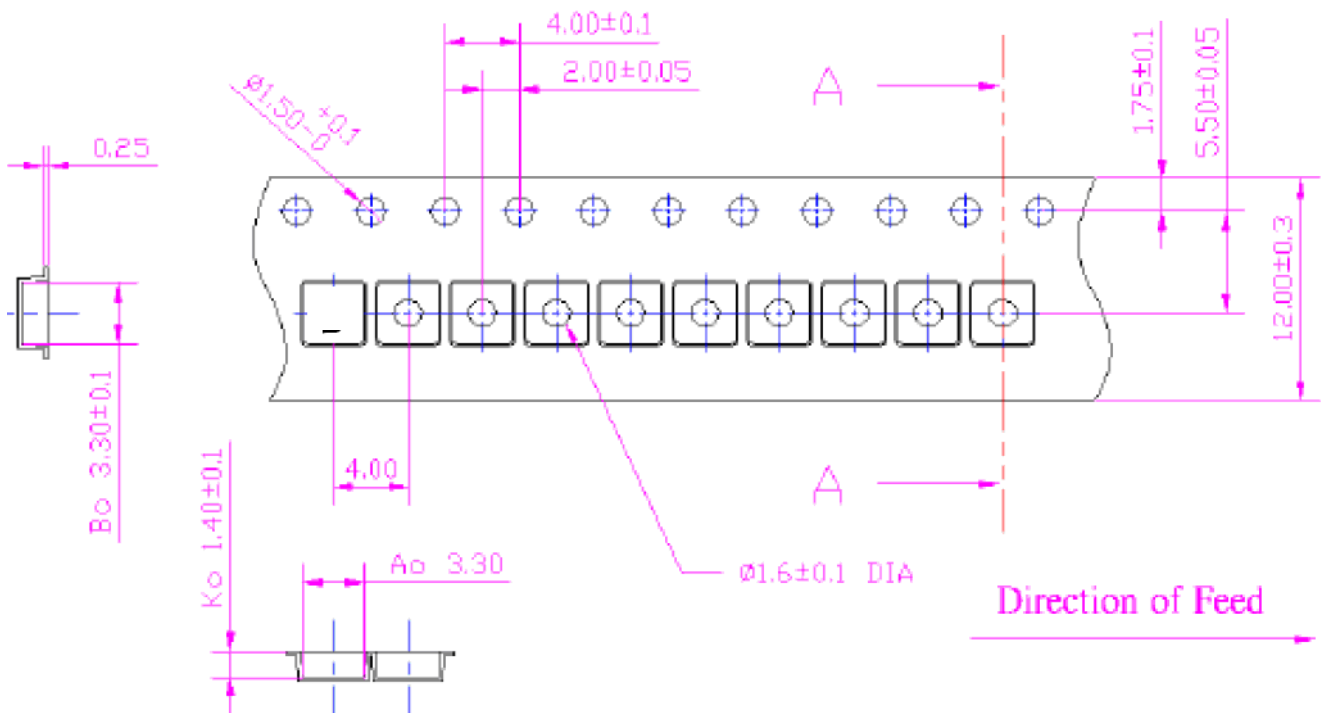
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F. PACKING:

1. Reel Dimension



2. Tape Dimension



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G. 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.

