

SAW Filter 2226.50MHz
Part No: MP09472

Model: TA2001A
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

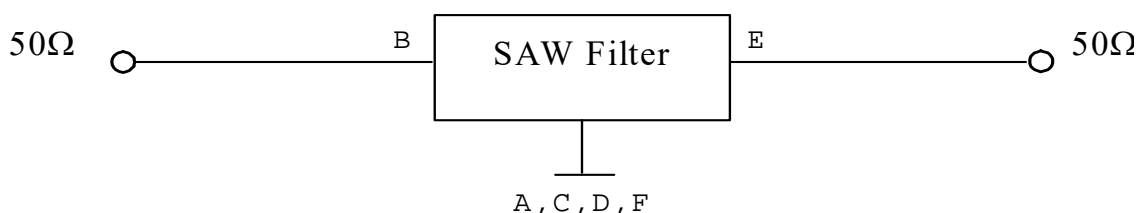
B. ELECTRICAL CHARACTERISTICS:

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

Item	Unit	Min.	Typ.	Max
Center frequency F_c	MHz	-	2226.5	-
Insertion Loss (2224 ~ 2229MHz) IL	dB	-	3.0	4.0
Amplitude ripple (2224 ~ 2229MHz)	dB	-	0.8	1.5
VSWR (2224 ~ 2229MHz)	-	-	1.5	2.0
Group Delay (2224 ~ 2229MHz)	ns	-	30	35
Attenuation (Reference level from 0dB)				
DC ~ 2050MHz	dB	40	45	-
2050 ~ 2150MHz	dB	40	45	-
2150 ~ 2170MHz	dB	35	42	-
2300 ~ 2400MHz	dB	50	54	-
2400 ~ 3000MHz	dB	40	45	-

C. TEST CIRCUIT:

HP Network analyzer

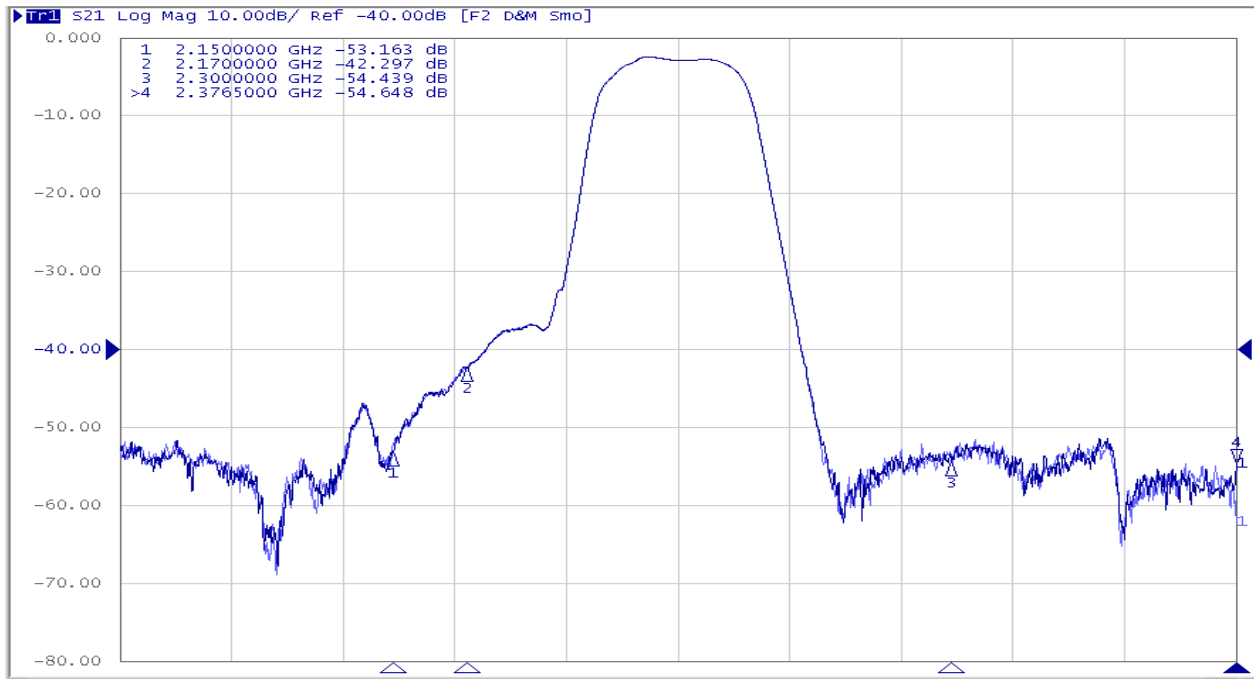


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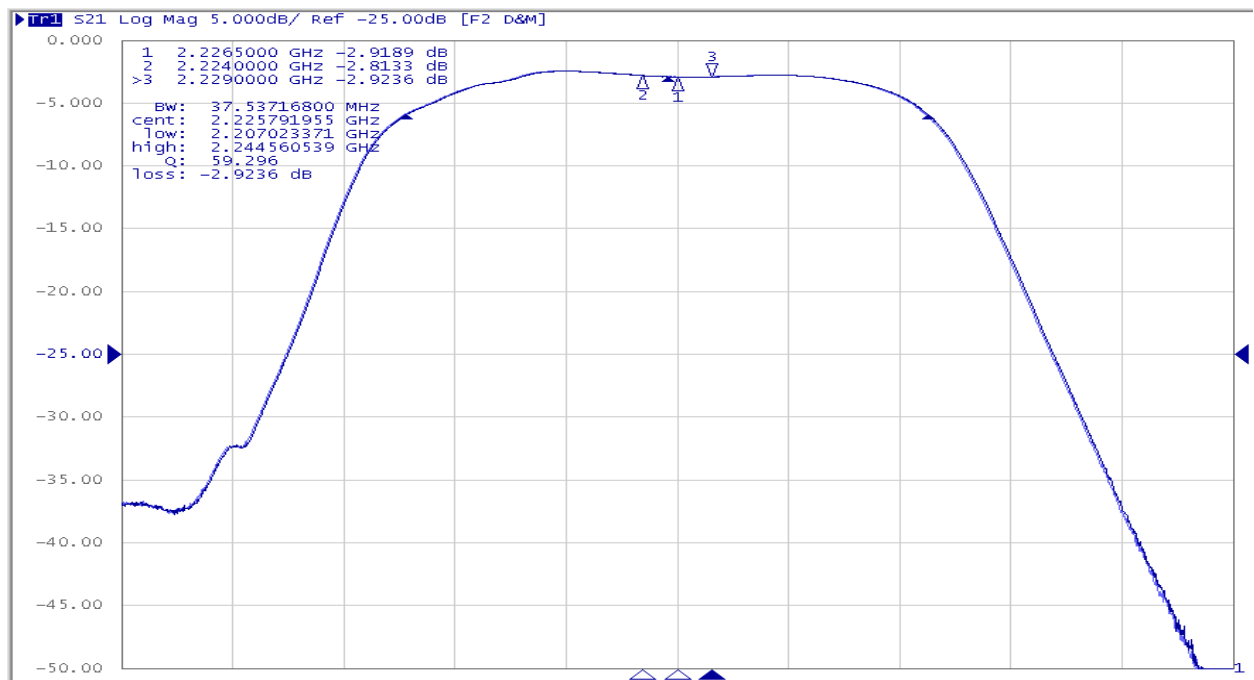
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D. FREQUENCY CHARACTERISTICS:

1. S21 response: Center 2227MHz, Span 300MHz



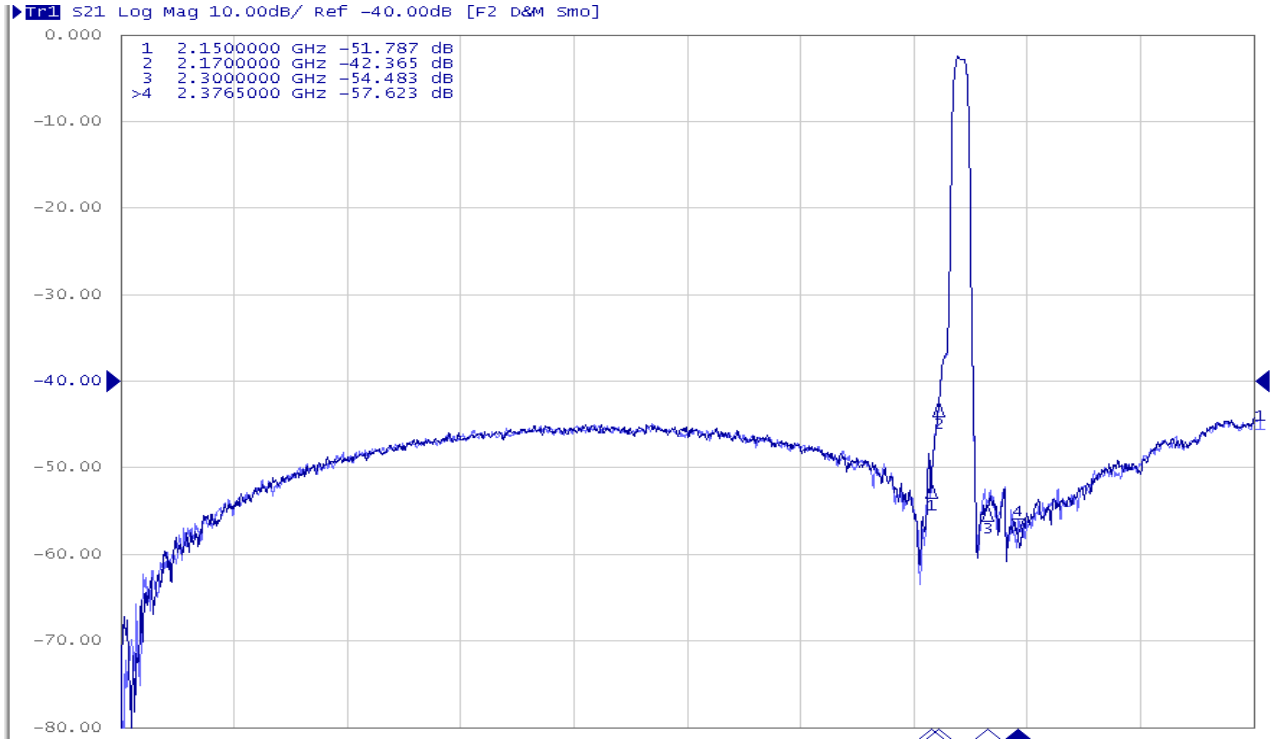
2. S21 response: Span 80MHz



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3. S21 response: 10MHz ~ 3000MHz



4. Group Delay: Span 80MHz

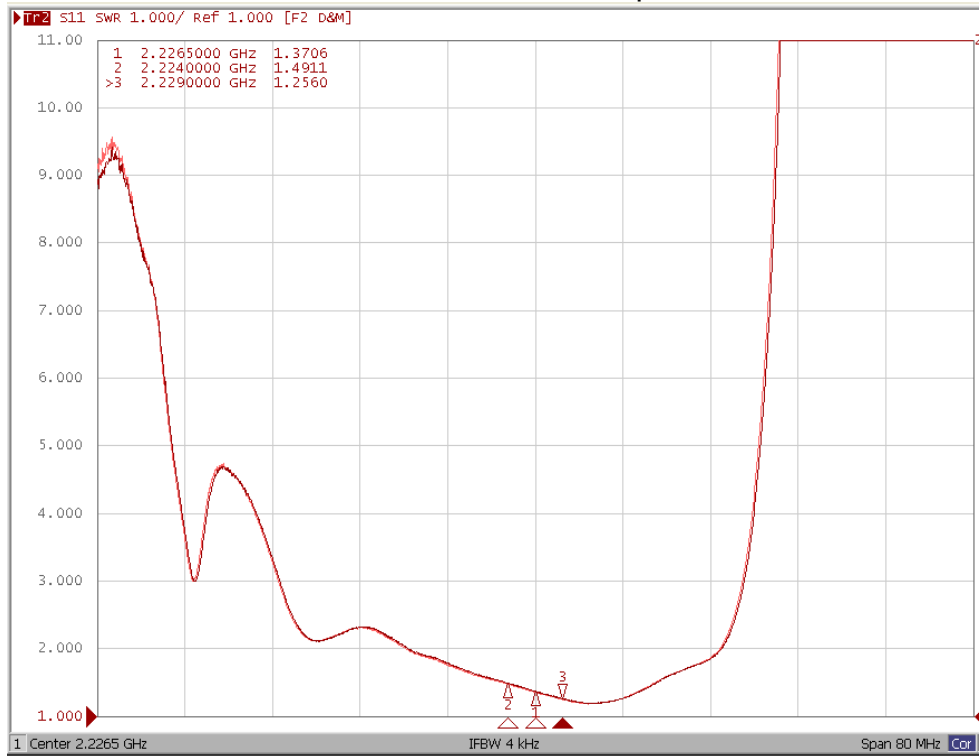


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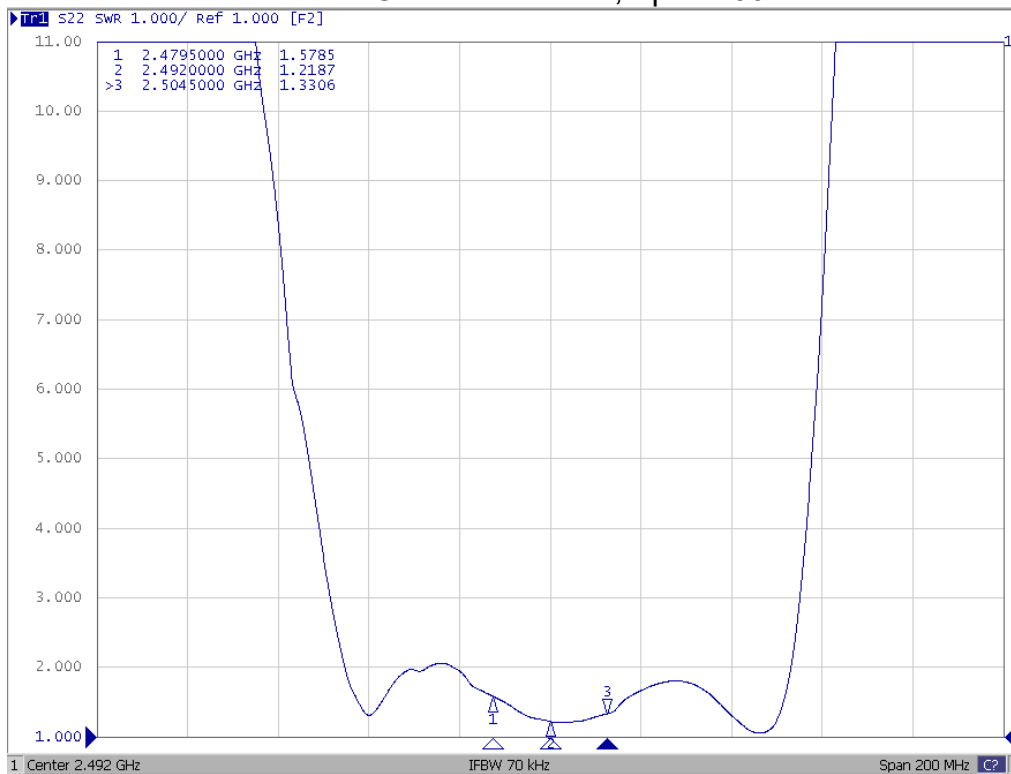
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5. Reflection Functions

S11 VSWR: Center 2227MHz, Span 200MHz



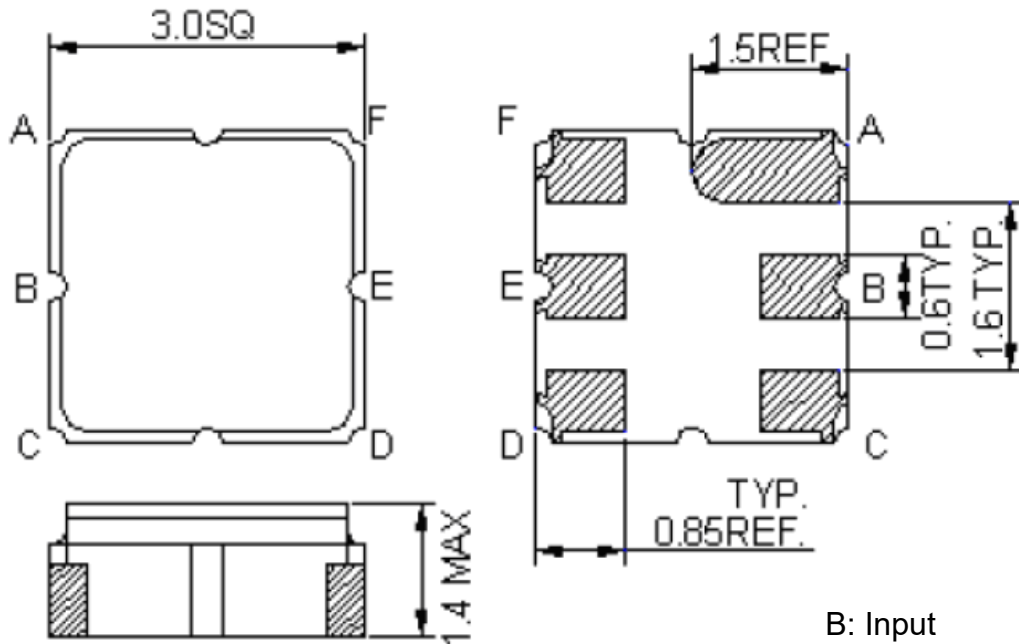
S11 VSWR: Center 2227MHz, Span 200MHz



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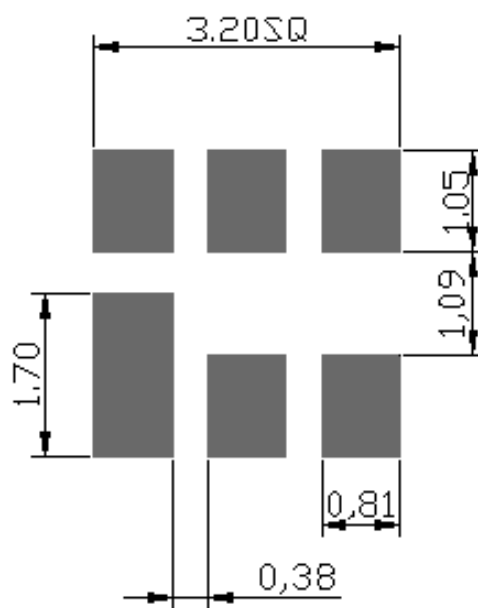
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E. OUTLINE DRAWING:



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

F. PCB FOOTPRINT:

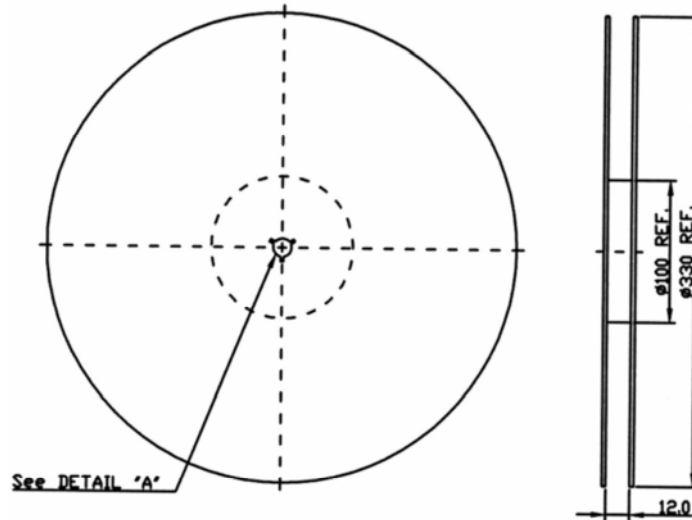


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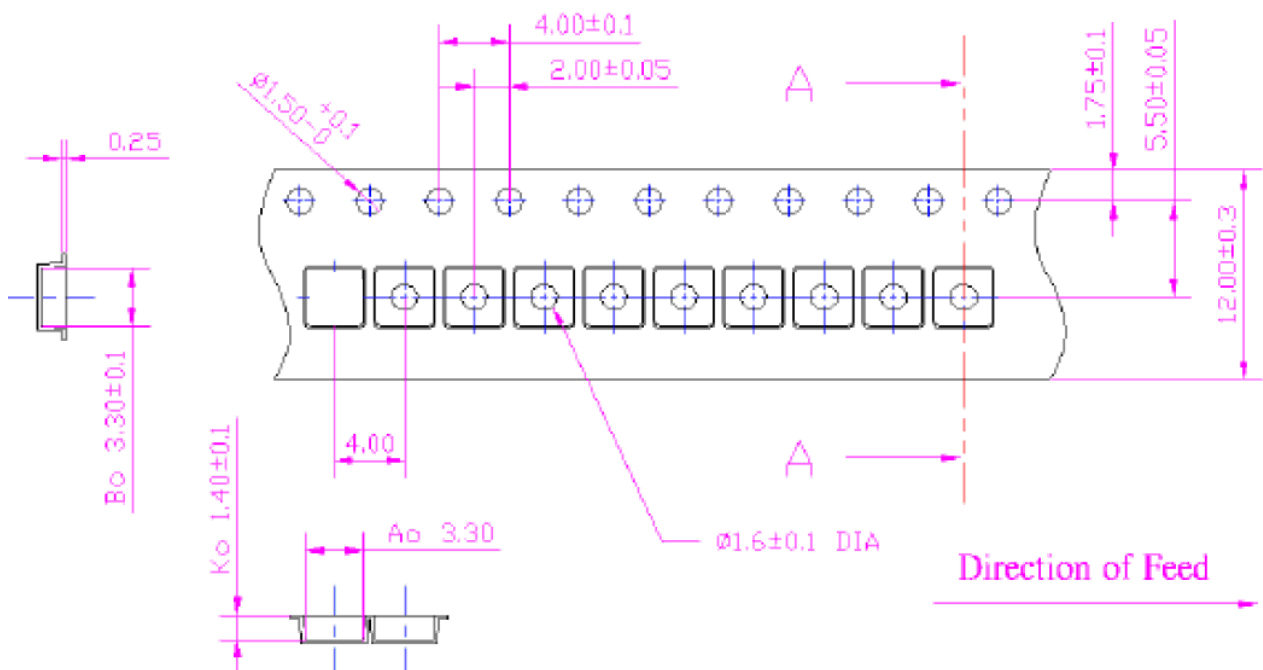
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G. PACKING:

1. Reel Dimensions



2. Tape Dimensions



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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 (20~40sec).
4. Time: 2 times.

