

SAW Filter 1950.0MHz
Part No: MA07757

Model: TA0401A
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 0V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

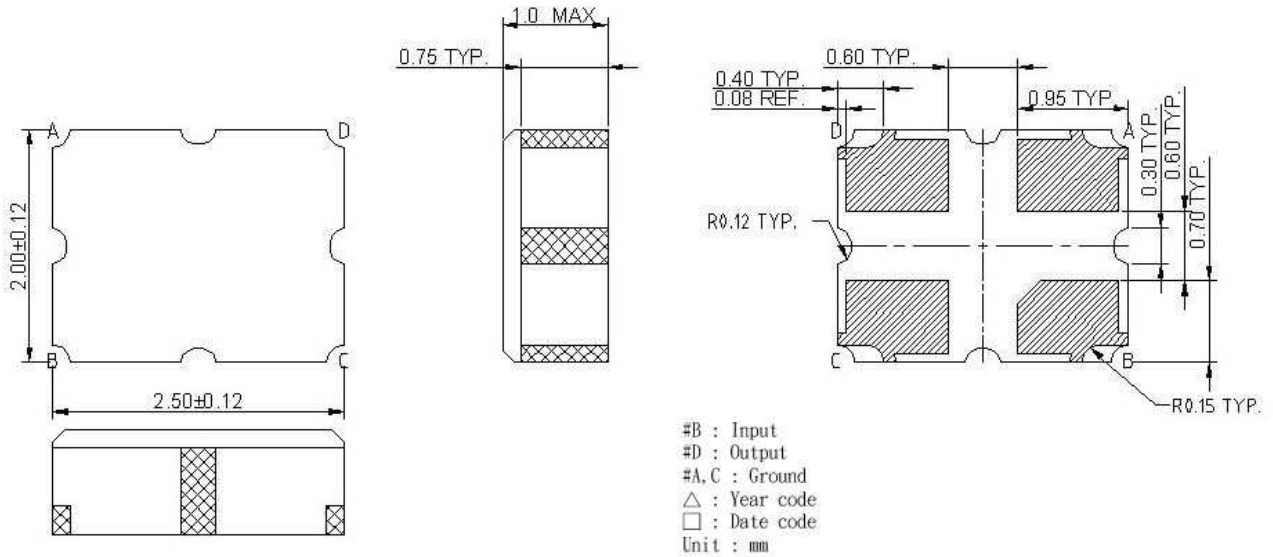
Item	Min.	Typ.	Max.
Center frequency Fc (dB)	-	1950	-
Insertion loss within 1920 ~ 1980MHz IL (dB)	-	2.4	3.4
Amplitude ripple (p-p) within 1920 ~ 1980MHz (dB)	-	1.1	2.0
Attenuation (Reference level from 0dB)			
1135 ~ 1145MHz (dB)	25	28	-
1705 ~ 1715MHz (dB)	25	29	-
1805 ~ 1880MHz (dB)	25	35	-
2110 ~ 2170MHz (dB)	30	34	-
2300 ~ 2360MHz (dB)	30	33	-
2490 ~ 2550MHz (dB)	30	34.5	-
2680 ~ 2740MHz (dB)	30	34	-
3060 ~ 3120MHz (dB)	30	44	-
3840 ~ 3960MHz (dB)	30	38	-
VSWR within 1920 ~ 1980MHz	-	1.6	2.6
Source impedance Z _S (Ω)	-	50	-
Load impedance Z _L (Ω)	-	50	-

Note: No matching network required for operation at 50Ω

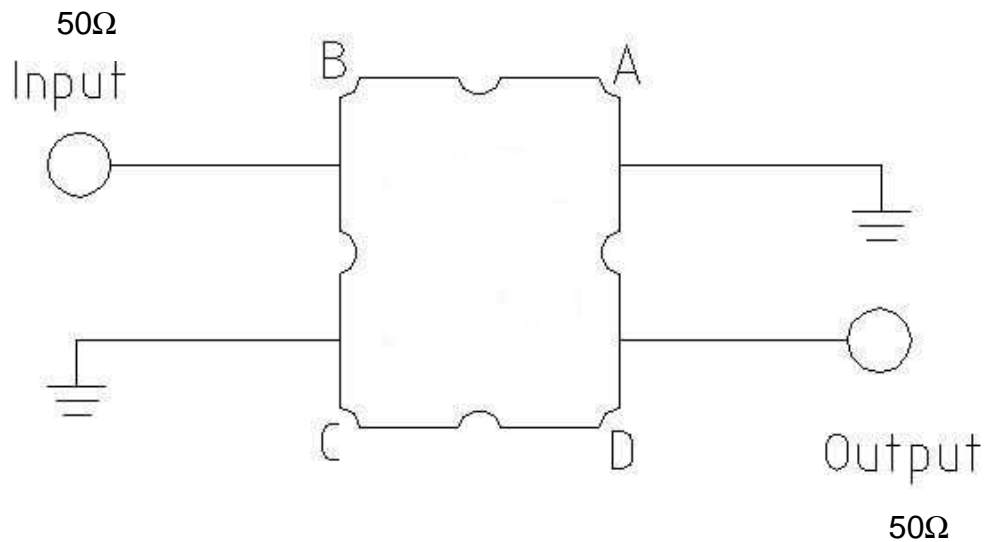
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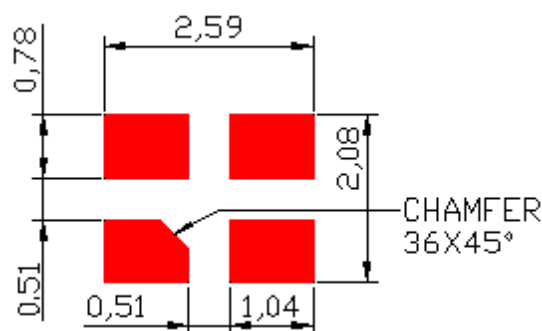
C. OUTLINE DRAWING:



D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:

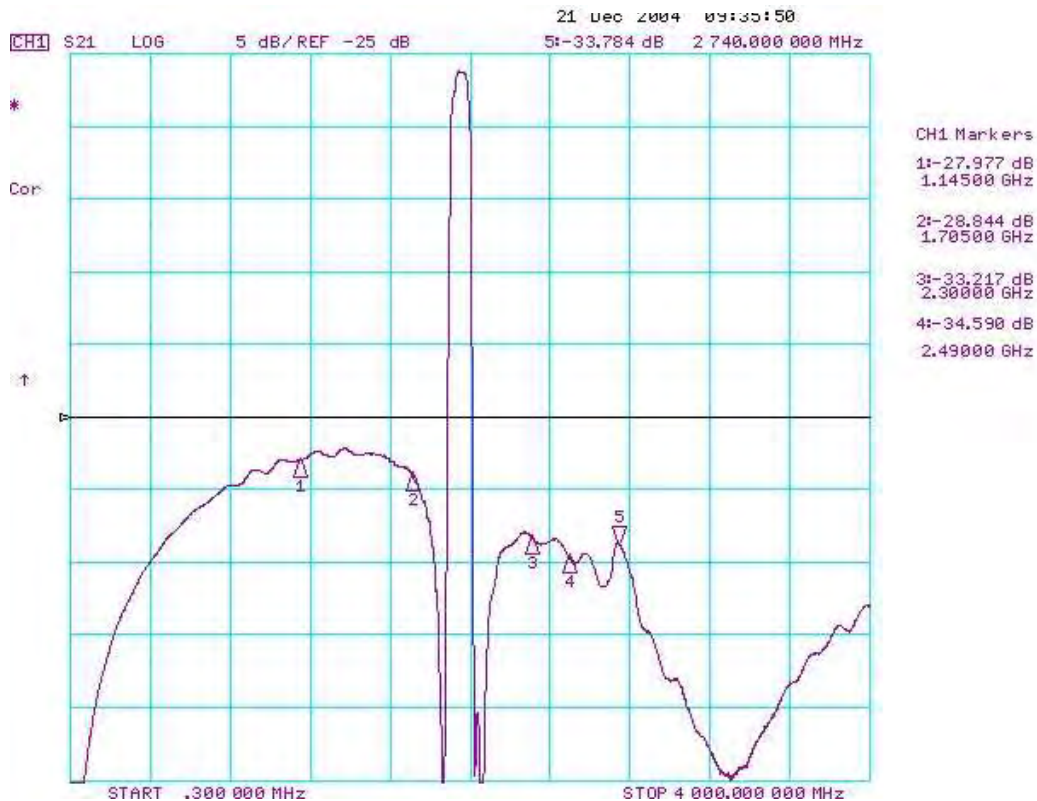
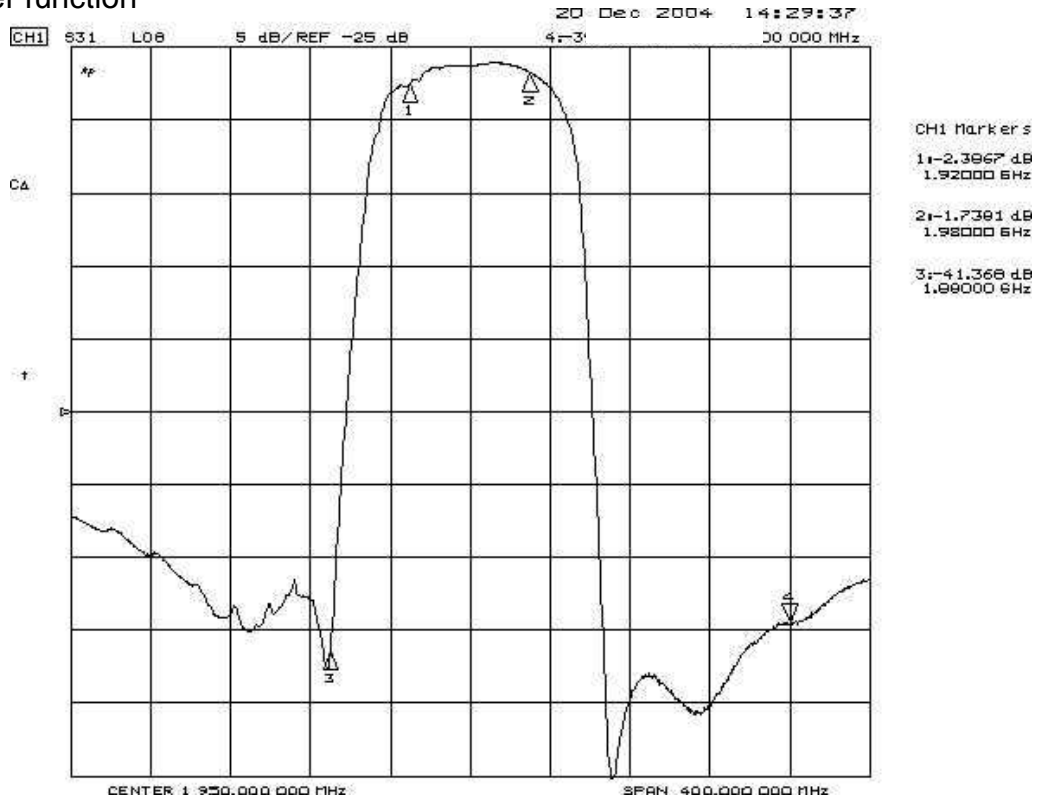


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F. FREQUENCY CHARACTERISTICS:

Transfer function

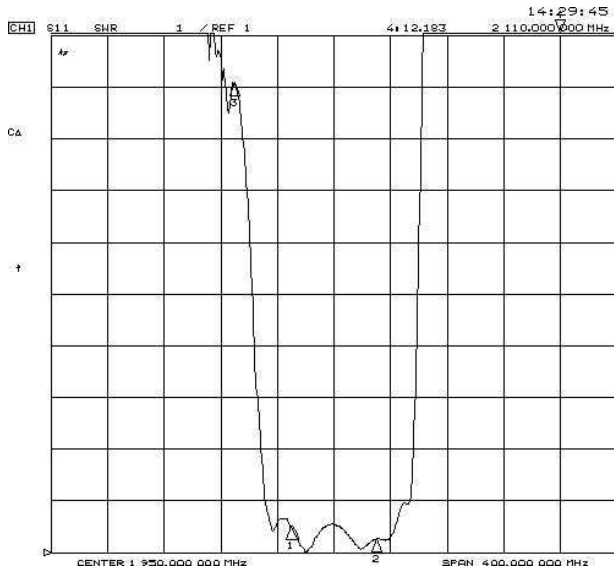


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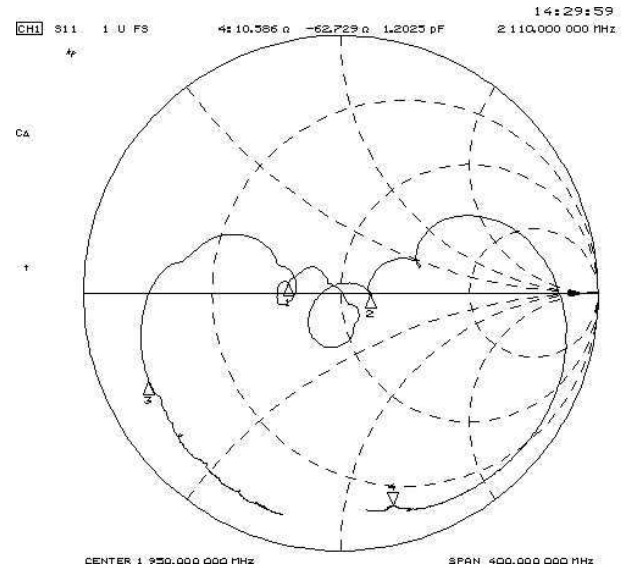
Reflections Functions

S11 VSWR



CH1 Markers

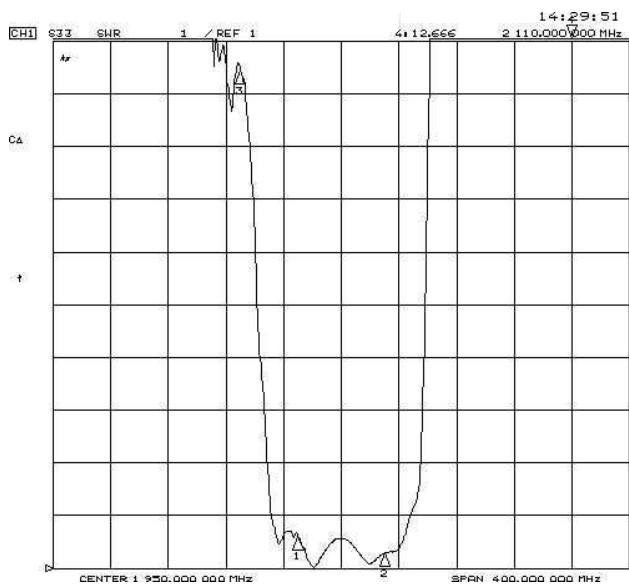
1:	1.9215	1.92000 GHz
2:	1.2649	1.96000 GHz
3:	10.089	1.86000 GHz



CH1 Markers

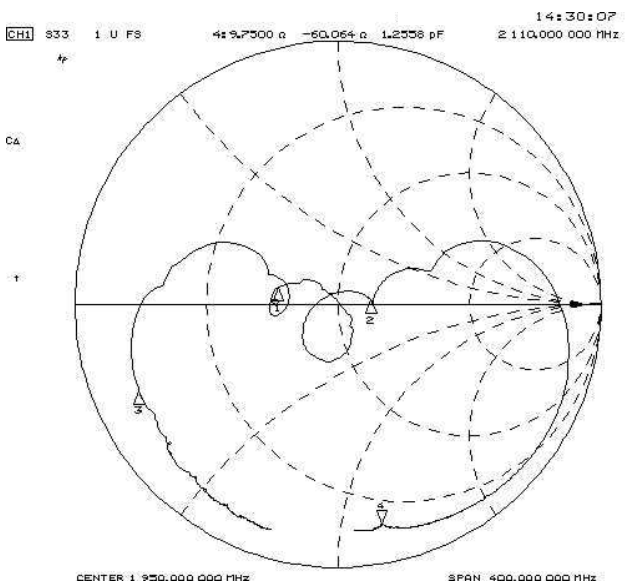
1:	33.039	2.7383	1.92000 GHz
2:	63.232	-4.5525	1.96000 GHz
3:	5.1784	-10.748	1.86000 GHz

S22 VSWR



CH1 Markers

1:	1.6182	1.92000 GHz
2:	1.2922	1.96000 GHz
3:	10.446	1.86000 GHz



CH1 Markers

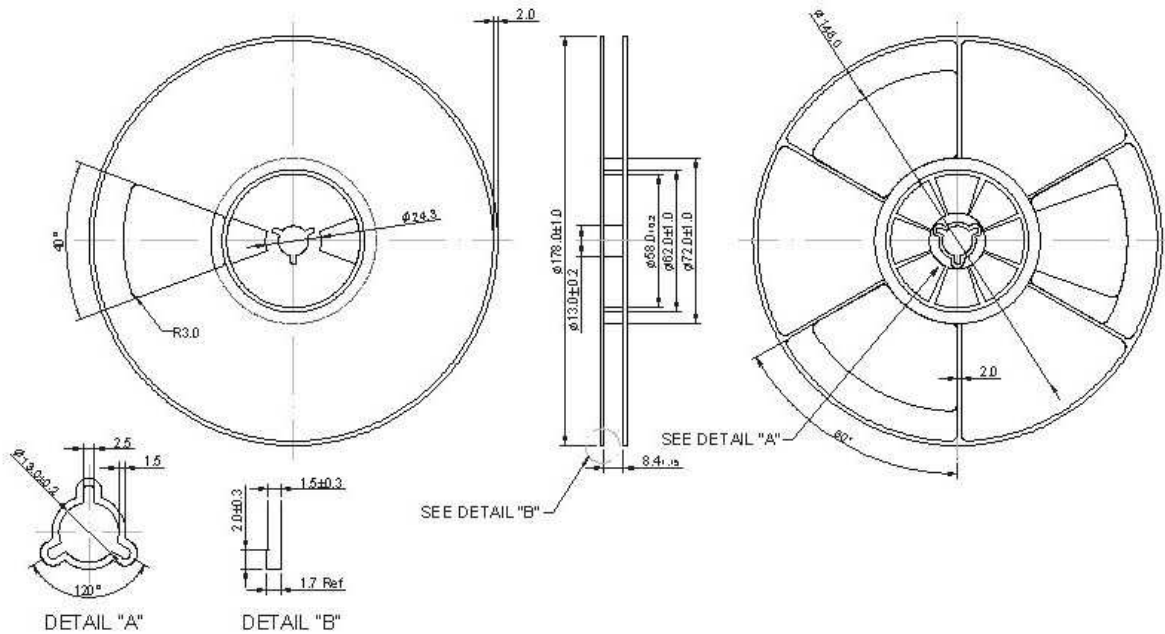
1:	31.267	4.2021	1.92000 GHz
2:	64.461	2.3086	1.96000 GHz
3:	5.0391	-10.224	1.86000 GHz

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G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

