



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: SAW Filter 1950MHz SMD 2.5X2.0 mm (BW=60MHz)

TST Part No.: TA0401C

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kevin *Kevin*

Approved by: _____ Francis Chen *Francis Chen*

Date: _____ 1/28/2011

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.



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SAW Filter 1950 MHz for LTE

MODEL NO.: TA0401C

REV. NO.:1

A. MAXIMUM RATING:

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

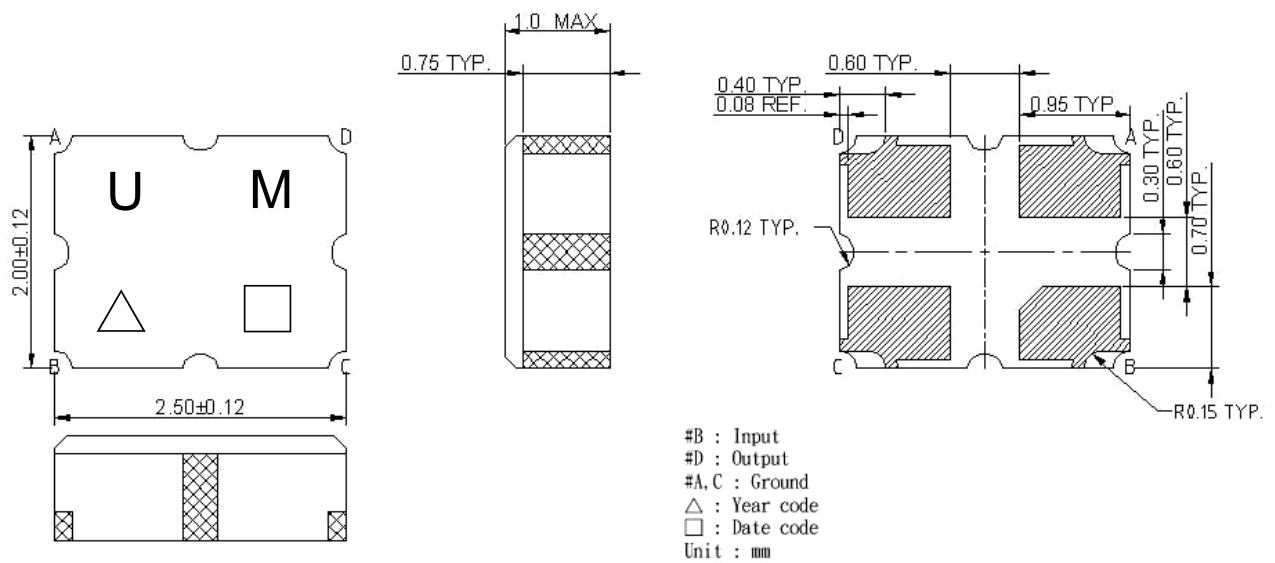
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

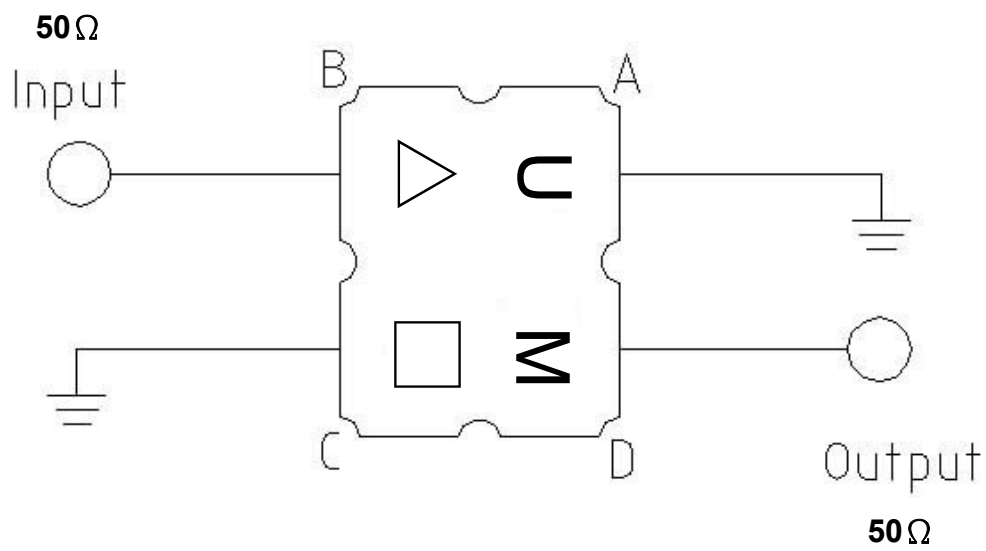
Item			Min.	Typ.	Max.
Center frequency F_c (dB)			-	1950	-
Insertion loss within 1920 ~1980 MHz IL (dB)			-	2.4	3.4
Amplitude ripple (p-p) within 1920 ~ 1980 MHz (dB)			-	1.1	2.0
Attenuation (Reference level from 0 dB)					
1135 ~ 1145	MHz	(dB)	25	28	-
1705 ~ 1715	MHz	(dB)	25	29	-
1805 ~ 1855	MHz	(dB)	25	35	-
2110 ~ 2170	MHz	(dB)	30	34	-
2300 ~ 2360	MHz	(dB)	30	33	-
2490 ~ 2550	MHz	(dB)	30	34.5	-
2680 ~ 2740	MHz	(dB)	30	34	-
3060 ~ 3120	MHz	(dB)	30	44	-
3840 ~ 3960	MHz	(dB)	30	38	-
VSWR within 1920 ~1980 MHz			-	1.6	2.6
Source impedance Z_s (Ω)			-	50	-
Load impedance Z_L (Ω)			-	50	-

Note1. No matching network required for operation at 50 Ω

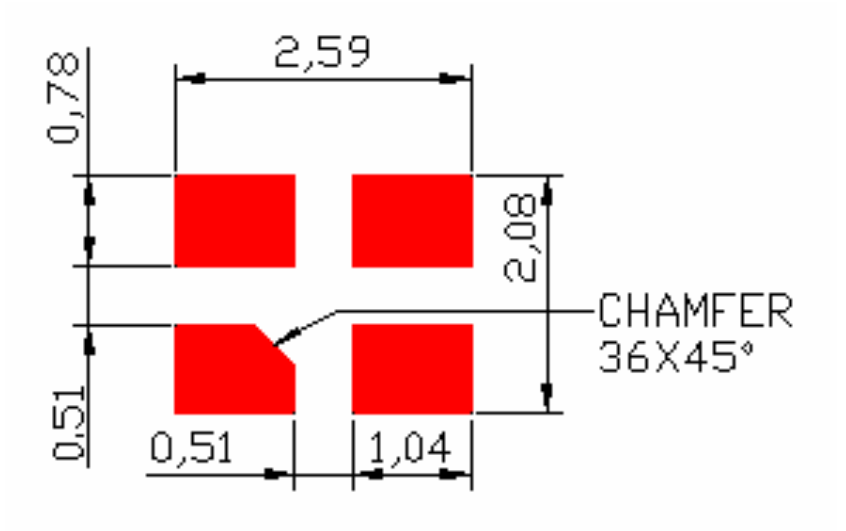
C.OUTLINE DRAWING:



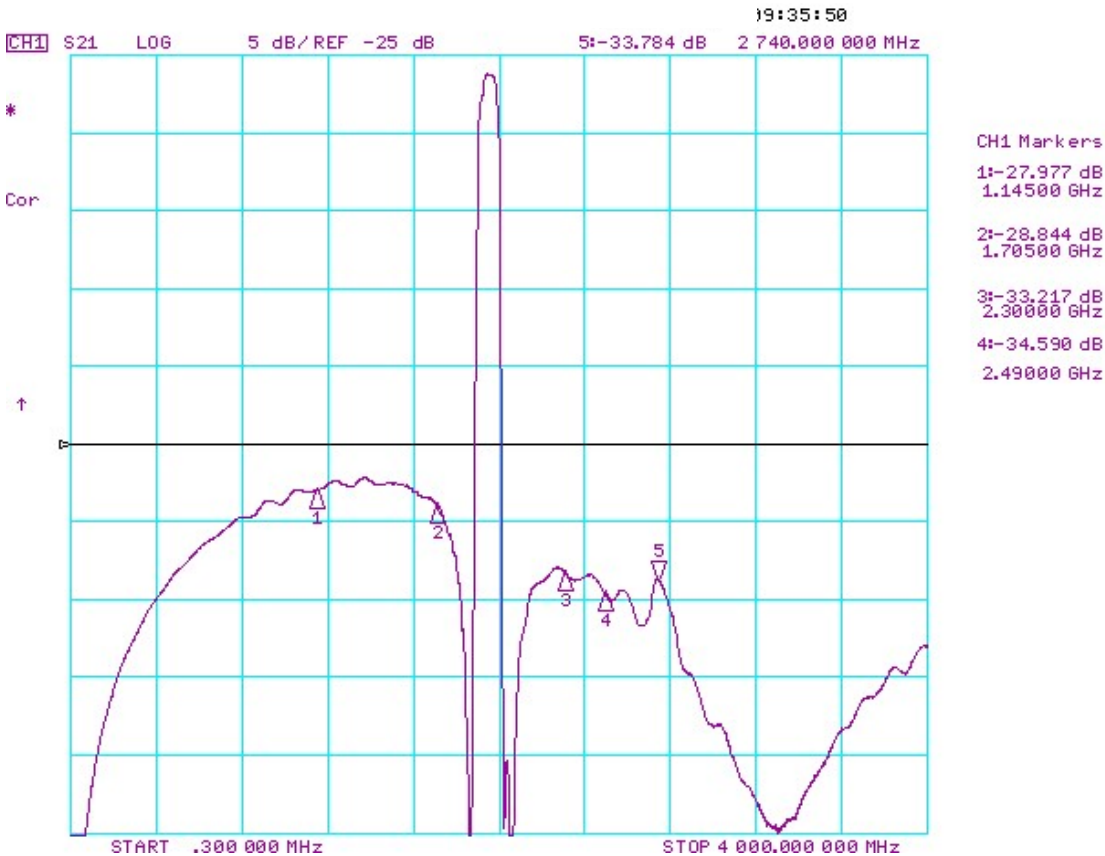
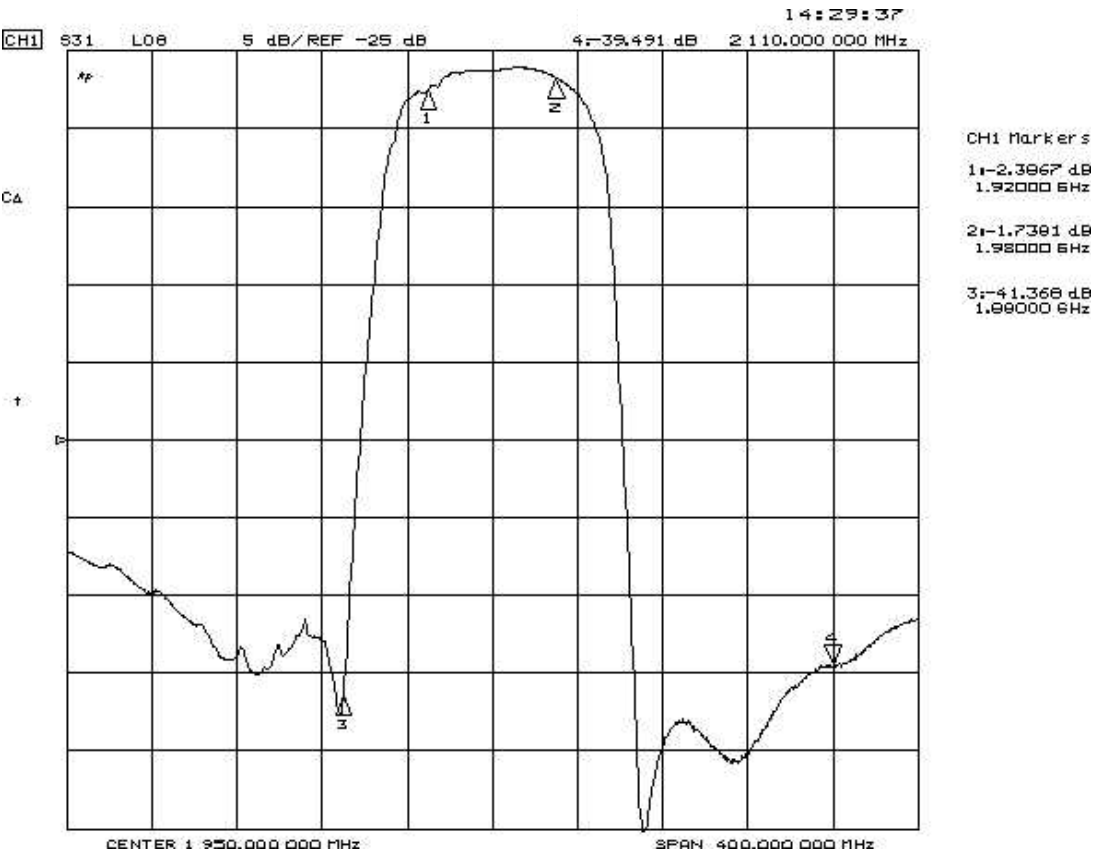
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

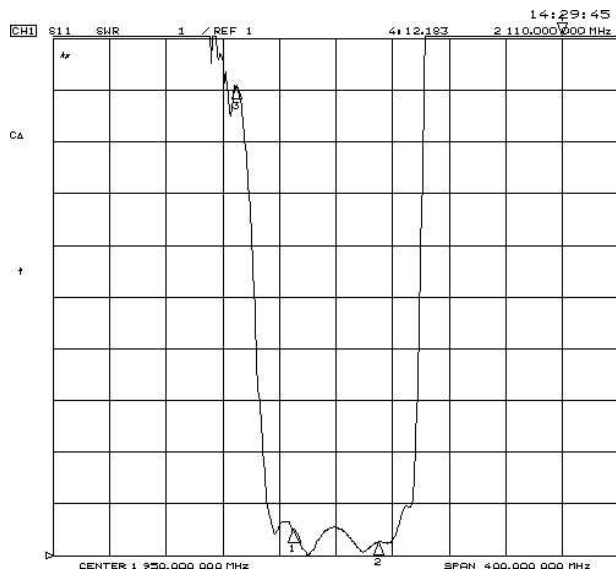


F. Frequency Characteristics : Transfer function



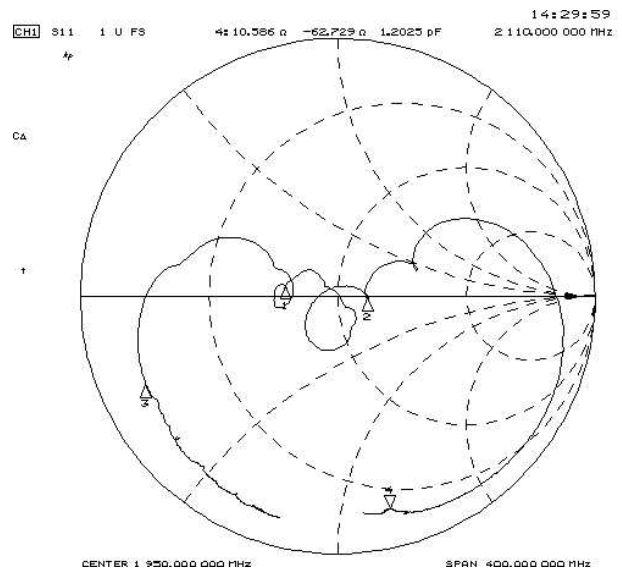
Reflections Functions :

S11 VSWR



CH1 Markers

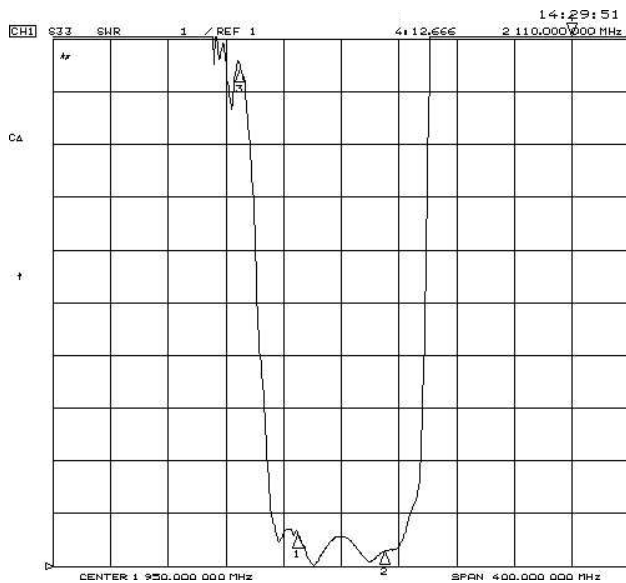
1:	1.5210
	1.92000 GHz
2:	1.2649
	1.98000 GHz
3:	10.089
	1.88000 GHz



CH1 Markers

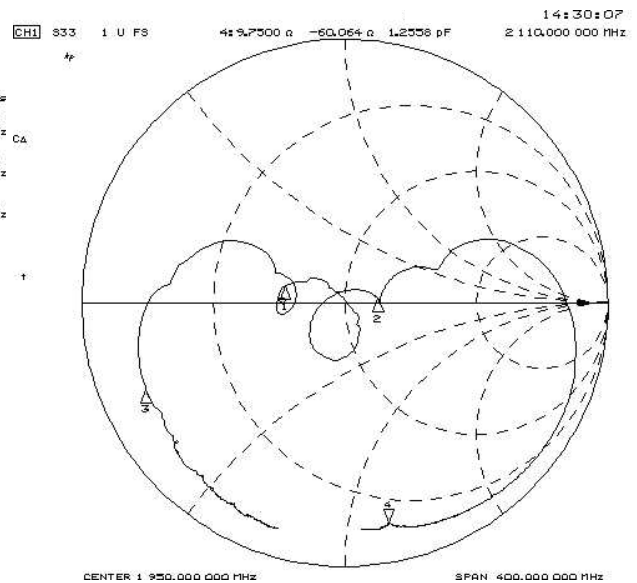
1:	33.039 Ω
	2.7383 Ω
	1.92000 GHz
2:	63.232 Ω
	-433.08 Ω
	1.98000 GHz
3:	5.3704 Ω
	-10.748 Ω
	1.88000 GHz

S22 VSWR



CH1 Markers

1:	1.6182
	1.92000 GHz
2:	1.2922
	1.98000 GHz
3:	10.446
	1.88000 GHz

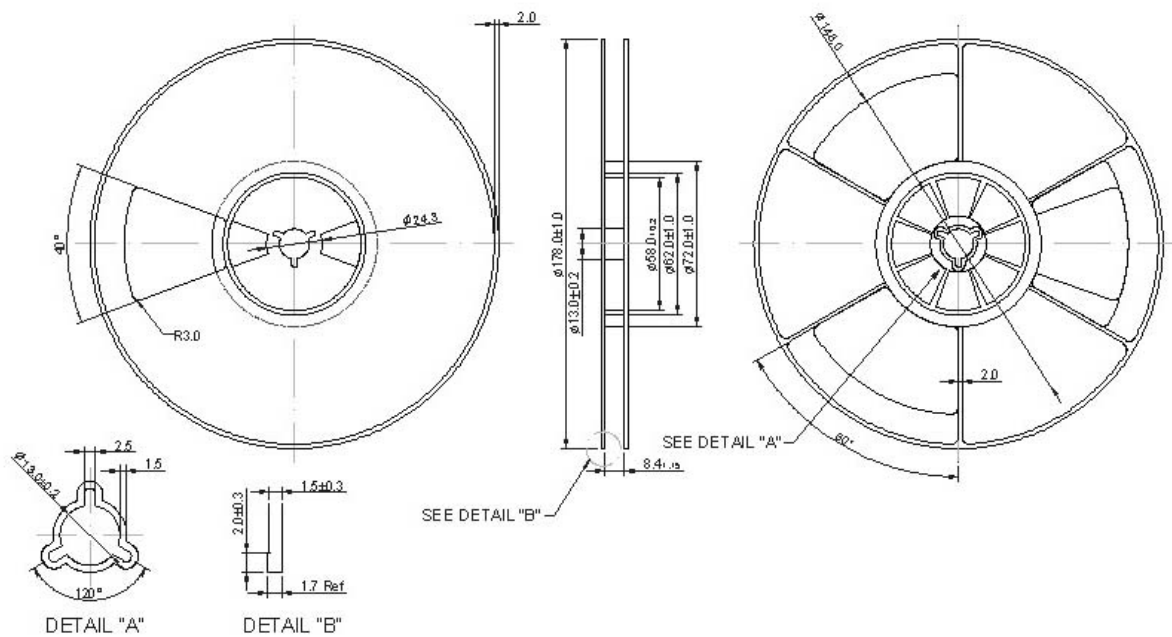


CH1 Markers

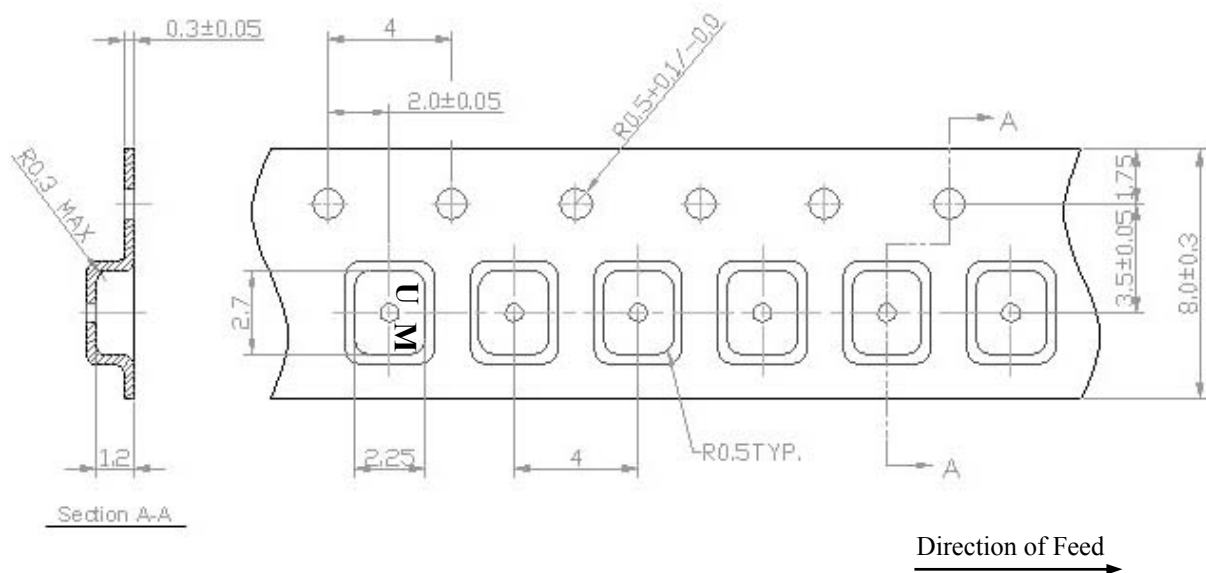
1:	31.267 Ω
	4.2021 Ω
	1.92000 GHz
2:	64.461 Ω
	2.3086 Ω
	1.98000 GHz
3:	5.0391 Ω
	-10.224 Ω
	1.88000 GHz

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



H. REFLOW PROFILE

