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Product Specifications Approval Sheet

Product Description: SAW Filter 1278.75MHz SMD 3.0×3.0mm (BW=55 MHz)

TST Part No.: TA1957A (This part is compliant with AEC-Q200)

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Allen Shen *Allen Shen*

Approved by: _____ Kazuma Lee *Kazuma Lee*

Date: _____ 2023/02/24

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.

SAW Filter 1278.75 MHz

MODEL NO.: TA1957A

REV. NO.:4.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)

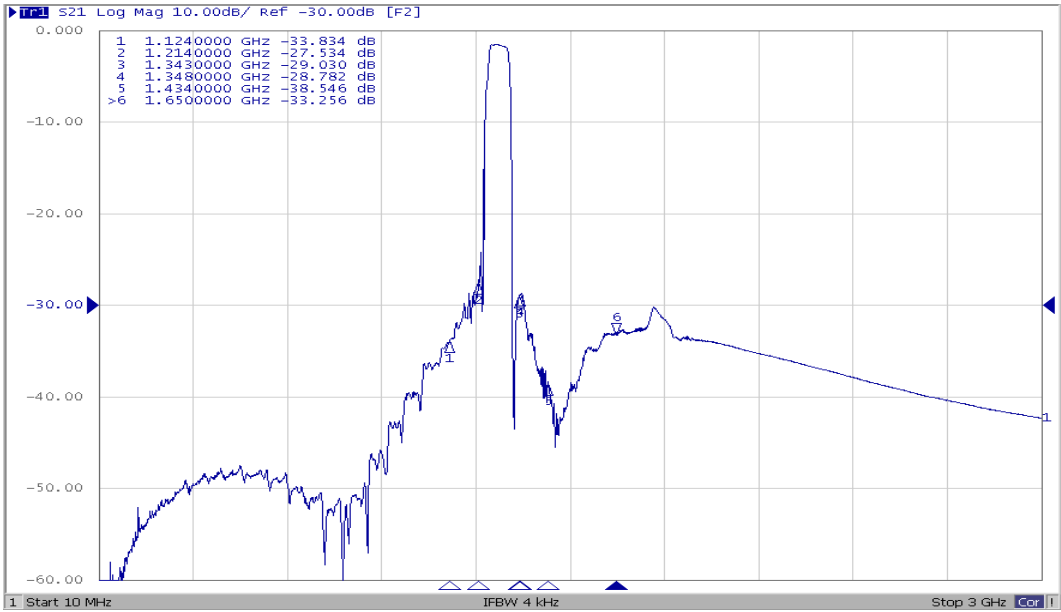
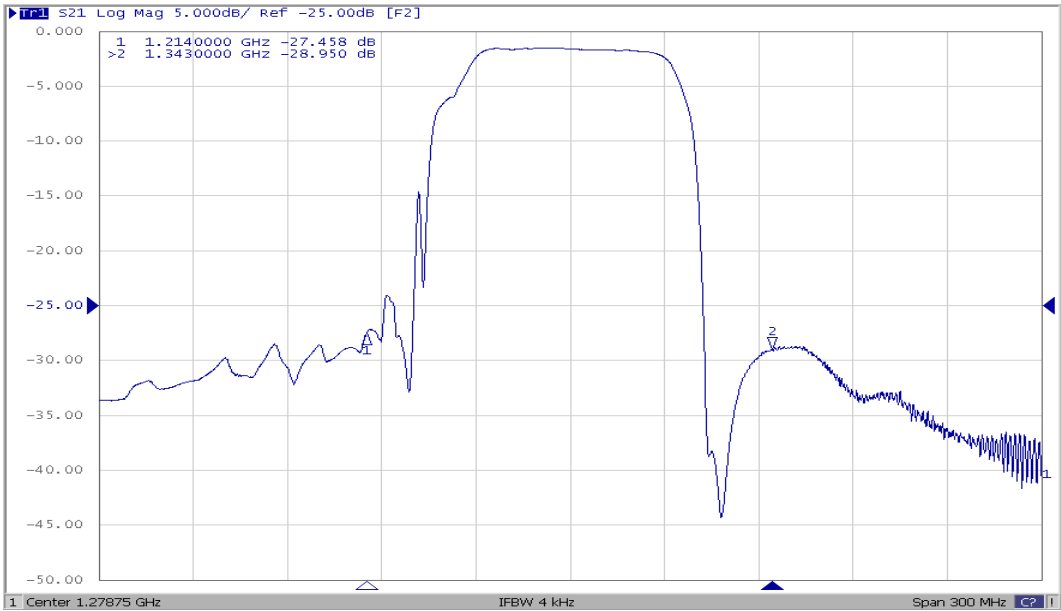
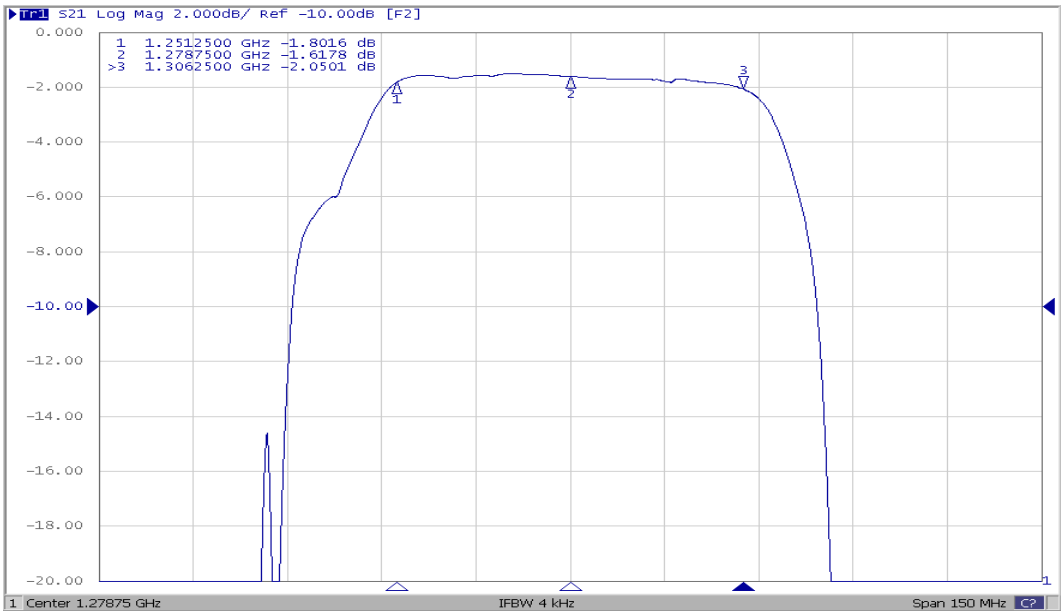


Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

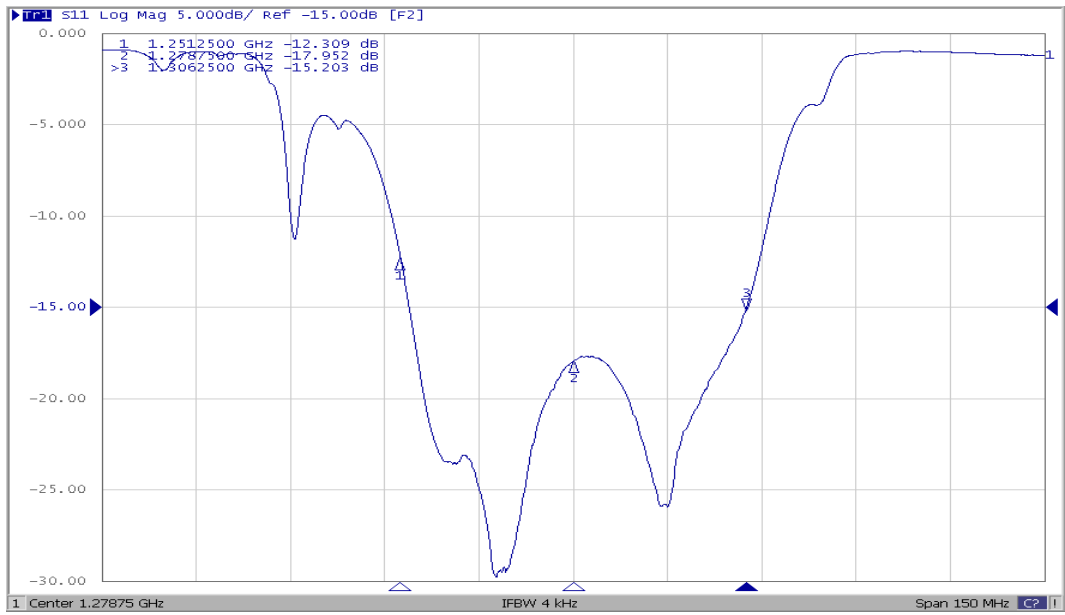
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1278.75	-
Insertion Loss (1251.25~1306.25 MHz) IL	dB	-	2.0	5.0
Amplitude Ripple (1251.25~1306.25 MHz)	dB	-	0.6	2.5
Return Loss (1251.25~1306.25 MHz)	dB	6.0	12	-
Group Delay Variation (1251.25~1306.25 MHz)	ns	-	12	50
Attenuation (Reference level from 0 dB)				
10 ~ 1124 MHz	dB	30	33	-
1124 ~ 1214 MHz	dB	24	27	-
1343 ~ 1348 MHz	dB	25	28	-
1348 ~ 1434 MHz	dB	25	28	-
1434 ~ 1650 MHz	dB	30	33	-
1650 ~ 3000 MHz	dB	25	30	-
Temperature coefficient of frequency	ppm/k	-	-36	-

C. Frequency Characteristics:

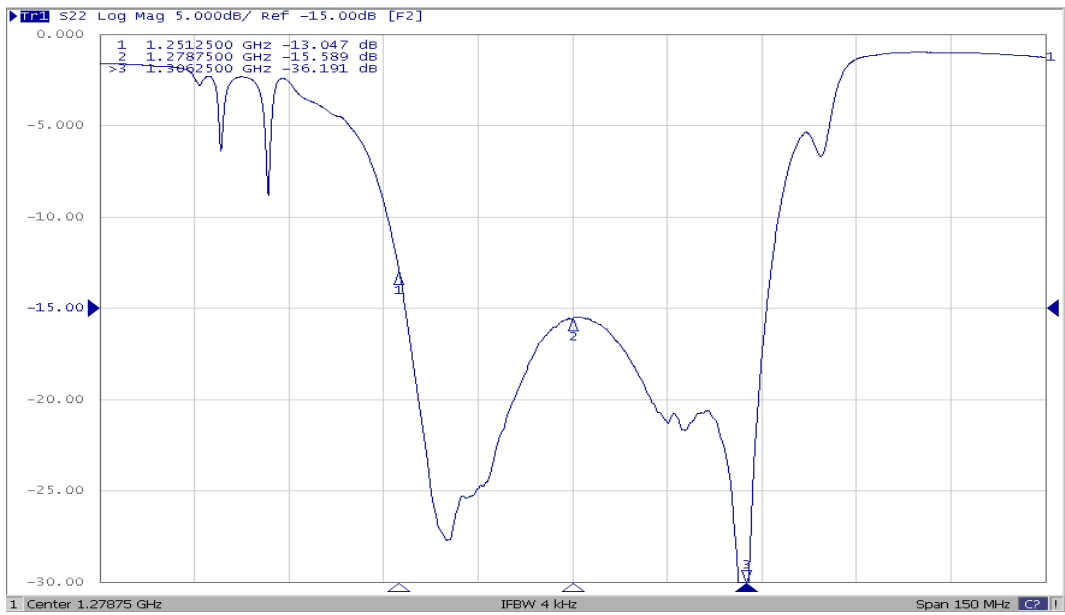


Reflection Functions:

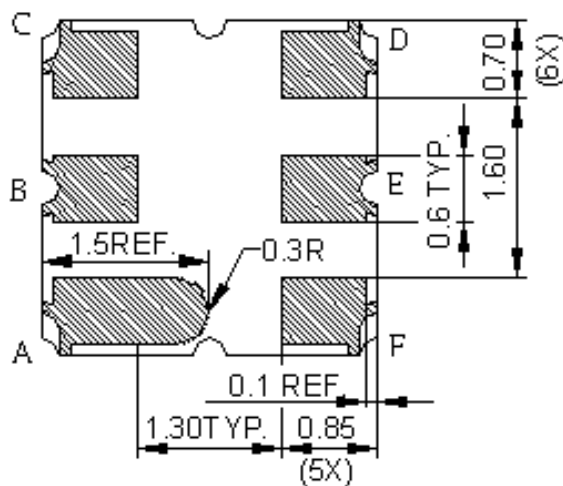
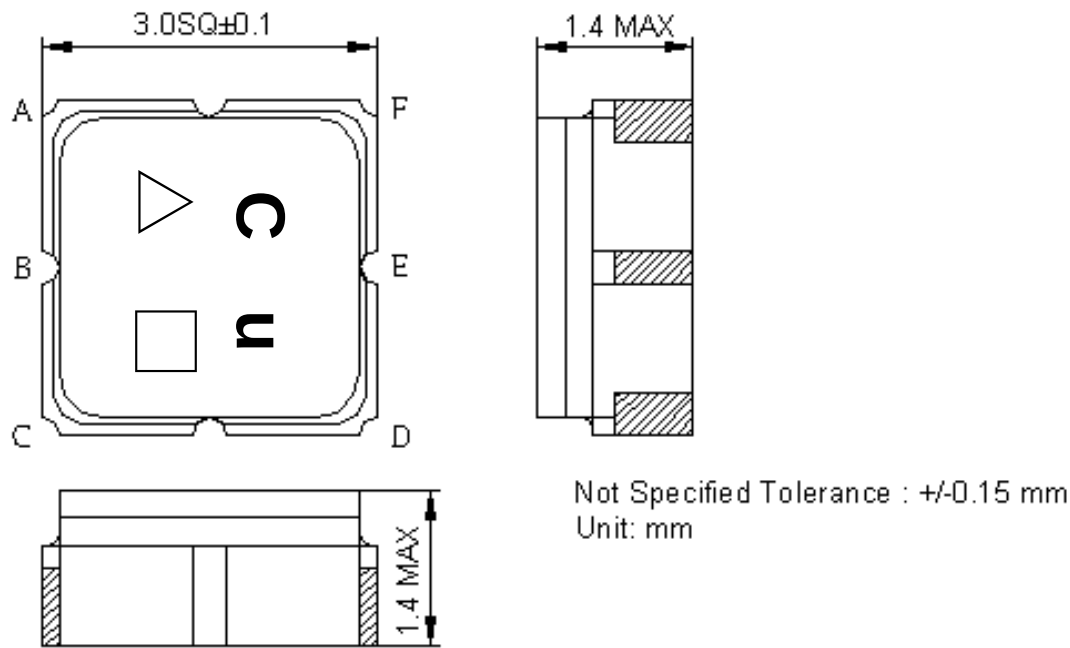
S11



S22



D. OUTLINE DRAWING:



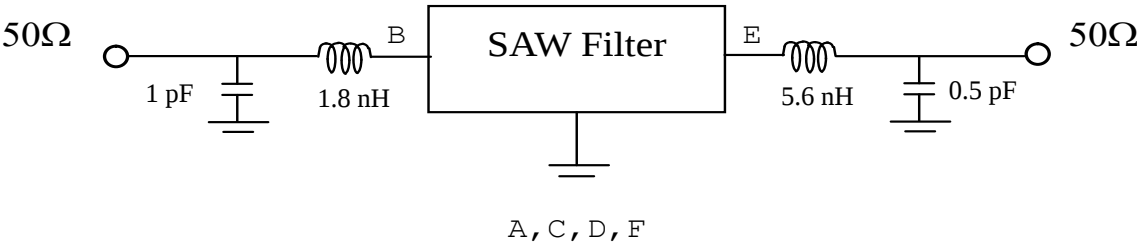
- B: Input**
E: Output
A, C, D, F: Ground
Unit: mm
△ : Year Code (2021->1, 2022->2, ..., 2029->9, 2030->0) - 10year cycle
□ : Date Code

Date Code Table:

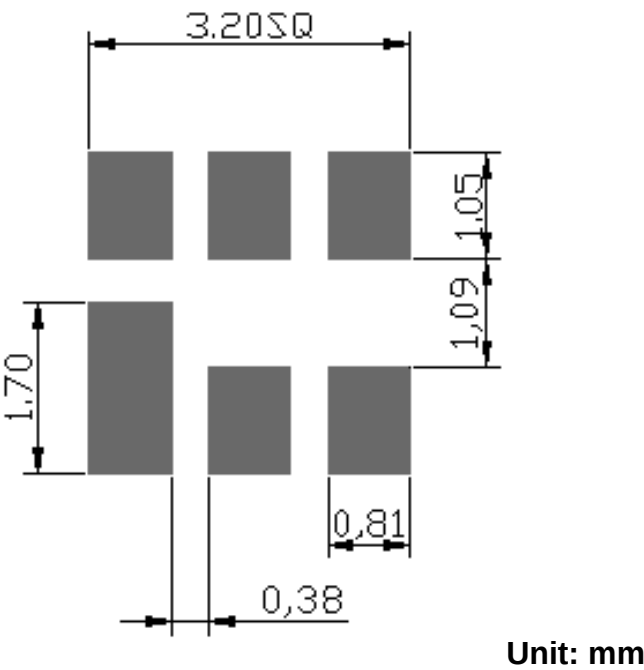
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

E. MEASUREMENT CIRCUIT:

HP Network analyzer

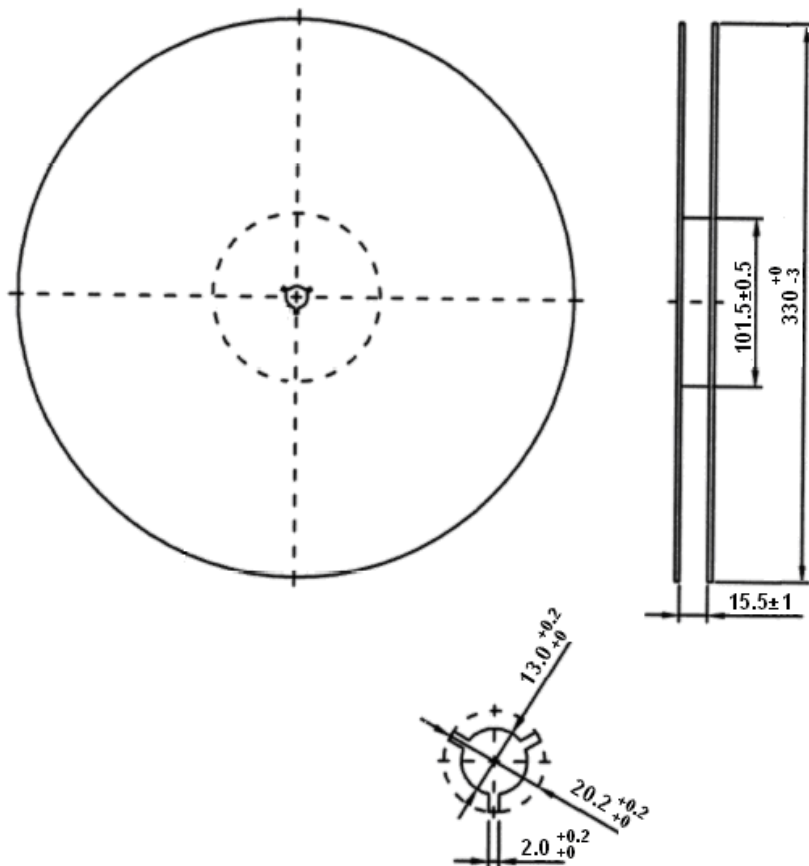


F. PCB Footprint:



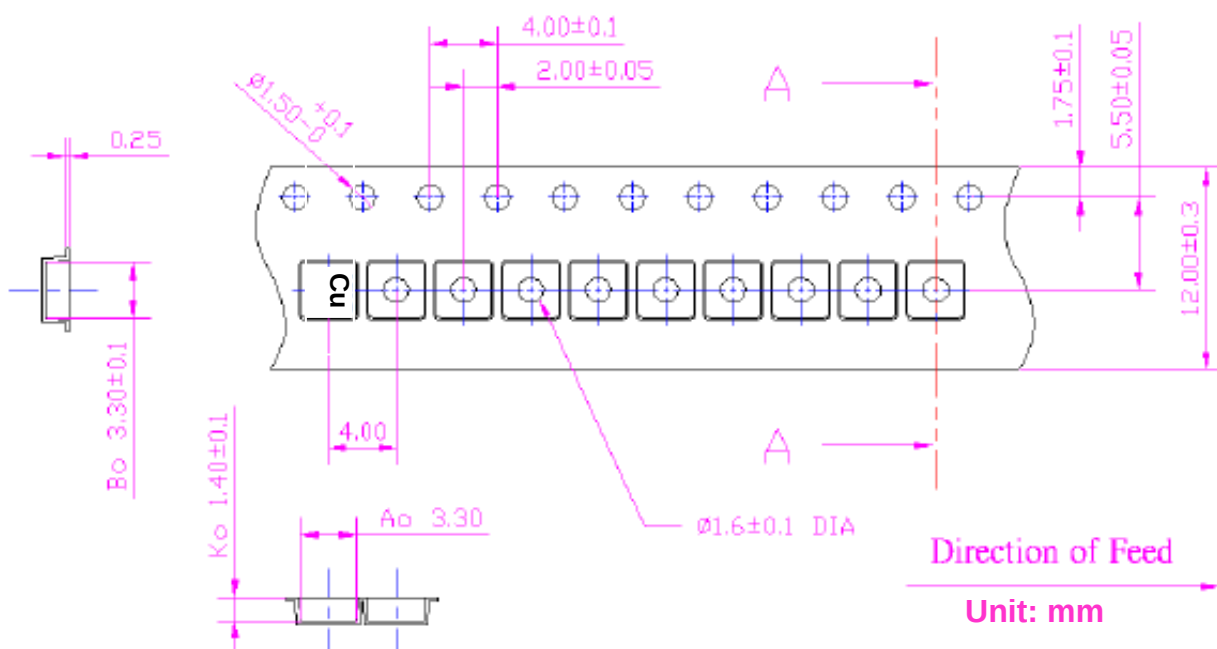
G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



Unit: mm

2. TAPE DIMENSION



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.

