



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 1250MHz SMD 3.0X3.0 mm (BW=10MHz)

TST Part No.: TA2160A

Customer Part No.: _____

Customer signature required

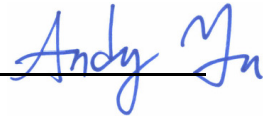
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 06, 26, 2018

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 1250MHz

MODEL NO.: TA2160A

REV. NO : 2.0

A. MAXIMUM RATING:

1. Input Power Level: 20dBm for 5min without damage
2. Input Power Level: 15dBm
3. DC voltage: 3 V
4. Operating Temperature: -40°C to +85°C
5. Storage Temperature: -55°C to +125°C
6. Moisture Sensitivity Level: Level 1 (MSL 1)
7. ESD 50V(MM) 100V(HBM)

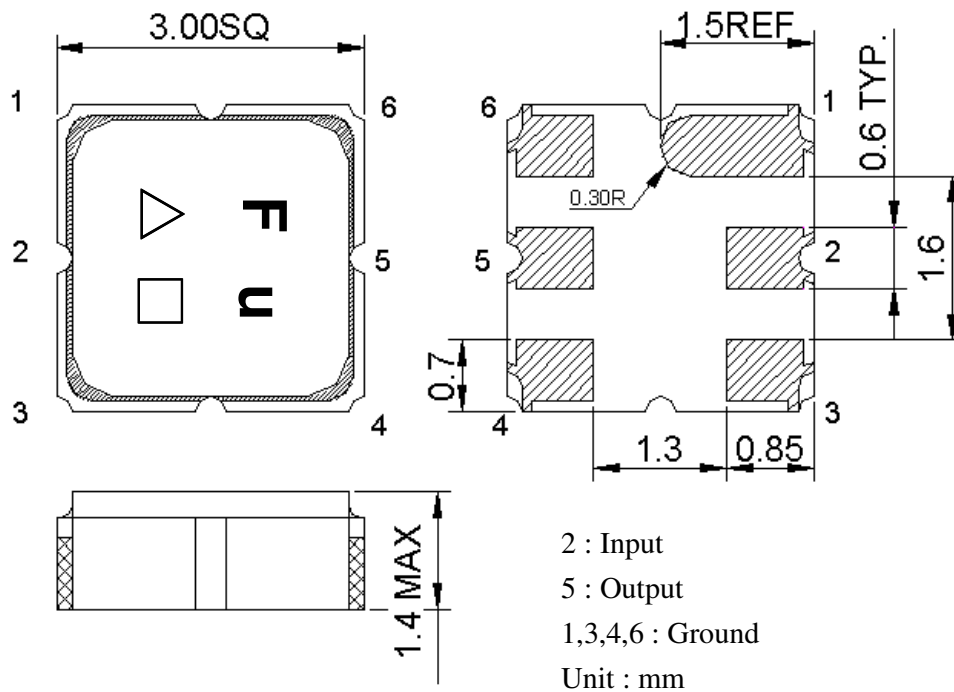
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS :

Item			Min.	Typ.	Max.
Center frequency	Fc	MHz	-	1250	-
Minimum Insertion loss	IL	dB	-	2.9	3.5
Amplitude ripple (1246 ~ 1254MHz)		dB	-	0.4	1
Group Delay (1246 ~ 1254MHz)		ns	-	34	40
Deviation from linear phase (1246 ~ 1254MHz)		deg	-	3	5
VSWR (1246 ~ 1254MHz)			-	1.7	1.9
Attenuation (Reference level from IL)					
DC ~ 1180	MHz	dB	48	50	-
1320 ~ 1700	MHz	dB	50	52	-
1700 ~ 2400	MHz	dB	40	42	-
2400 ~ 3600	MHz	dB	33	35	-
3600 ~ 5000	MHz	dB	3	5	-
Temperature Coefficient		ppm/°C	-	-36	-
Source impedance	Zs	Ω	-	50	-
Load impedance	ZL	Ω	-	50	-

C.OUTLINE DRAWING:



△ : Year Code (2009->9, 2010->0,..., 2018->8)

□ : Date Code (Follow the table from planner each year)

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

Note :

The base material is ceramic with Au over Ni plating.

The plating thicknesses are:

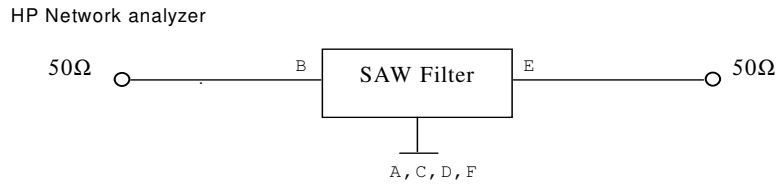
Electro Ni : $1.27 \sim 8.89 \mu \text{ m}$.

Electro Au : $0.3 \sim 1.0 \mu \text{ m}$ (solder pads only).

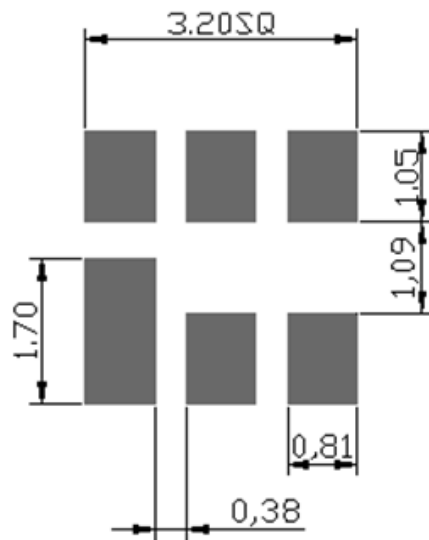
$0.3 \mu \text{ m}$ Min. (Others)

D. MEASUREMENT CIRCUIT:

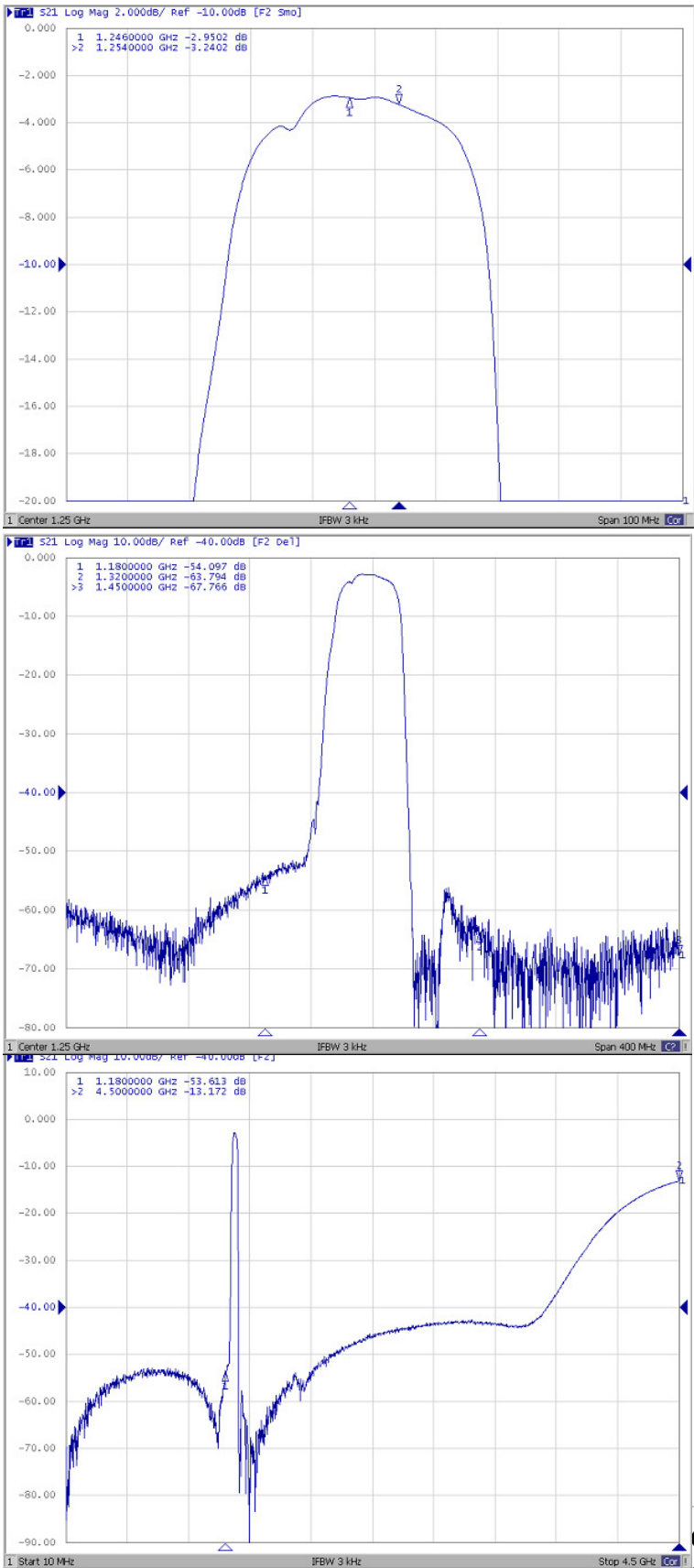
50 Ohm Test circuit (single-ended / single-ended)



E. PCB Footprint :



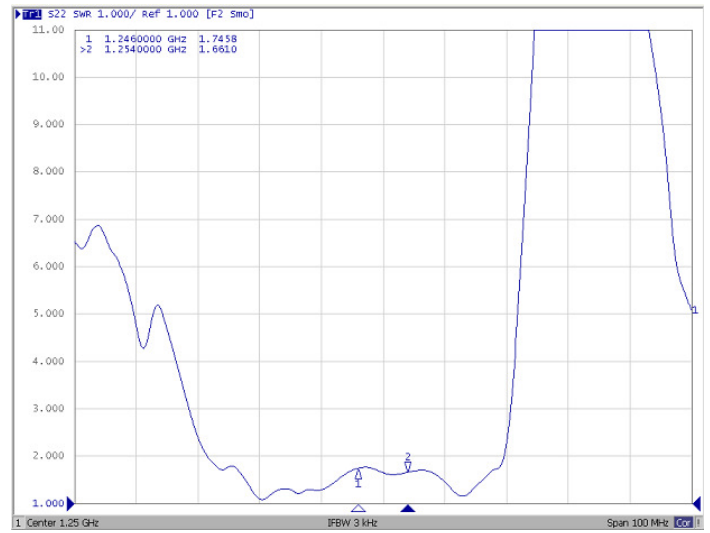
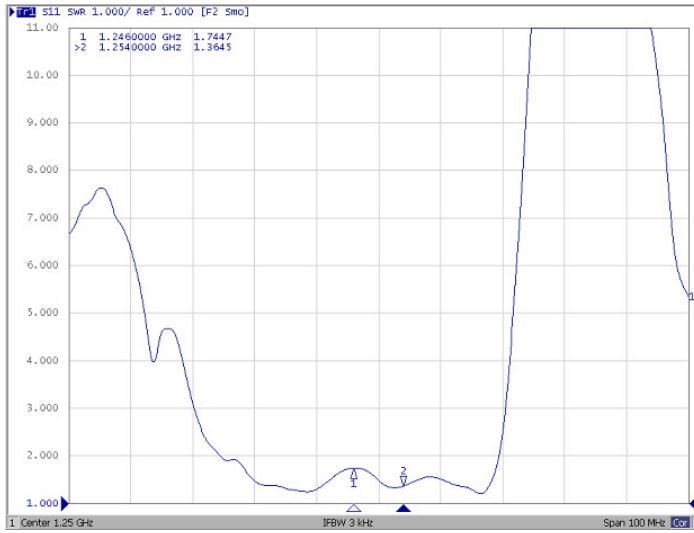
F. Frequency Characteristics :
Transfer function



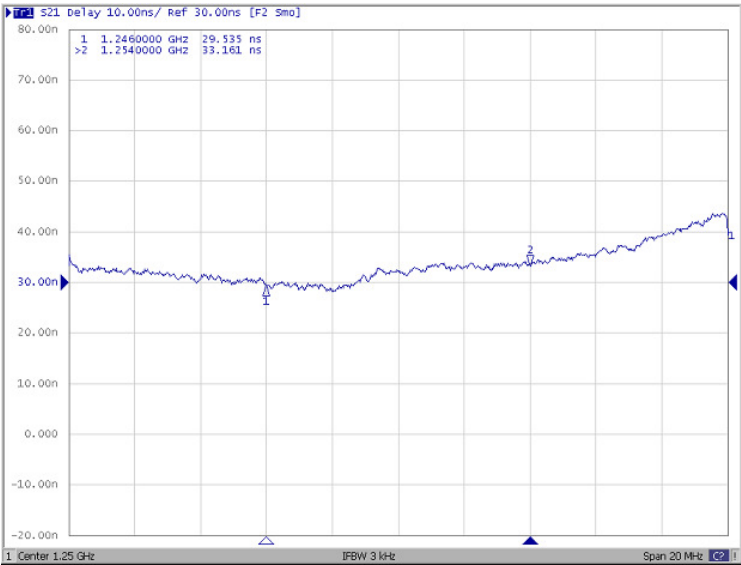
CC

Release document

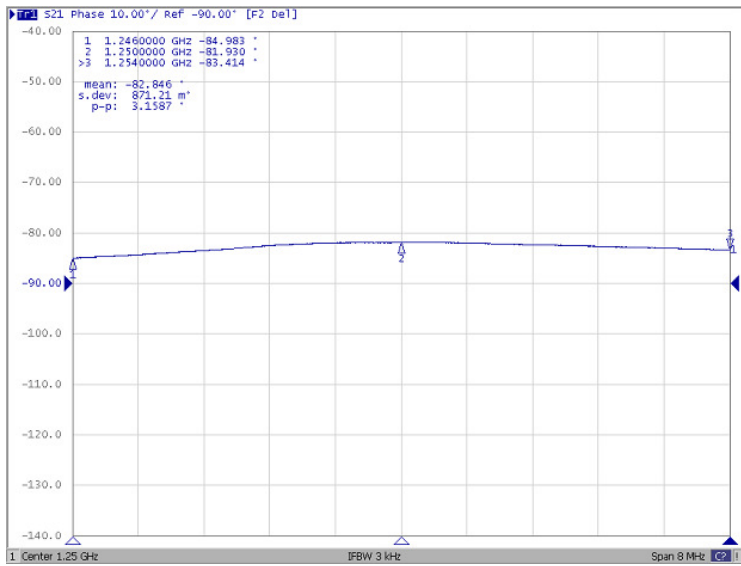
Reflection Functions :



Group Delay



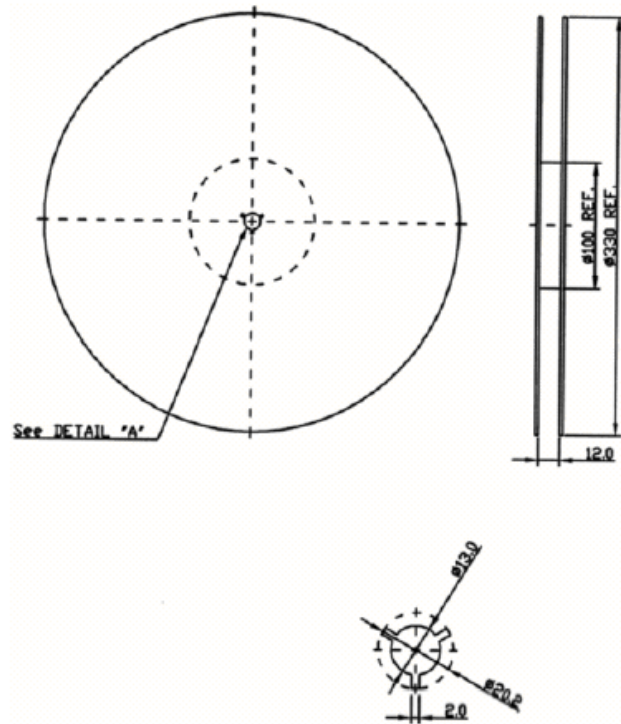
Linear Phase



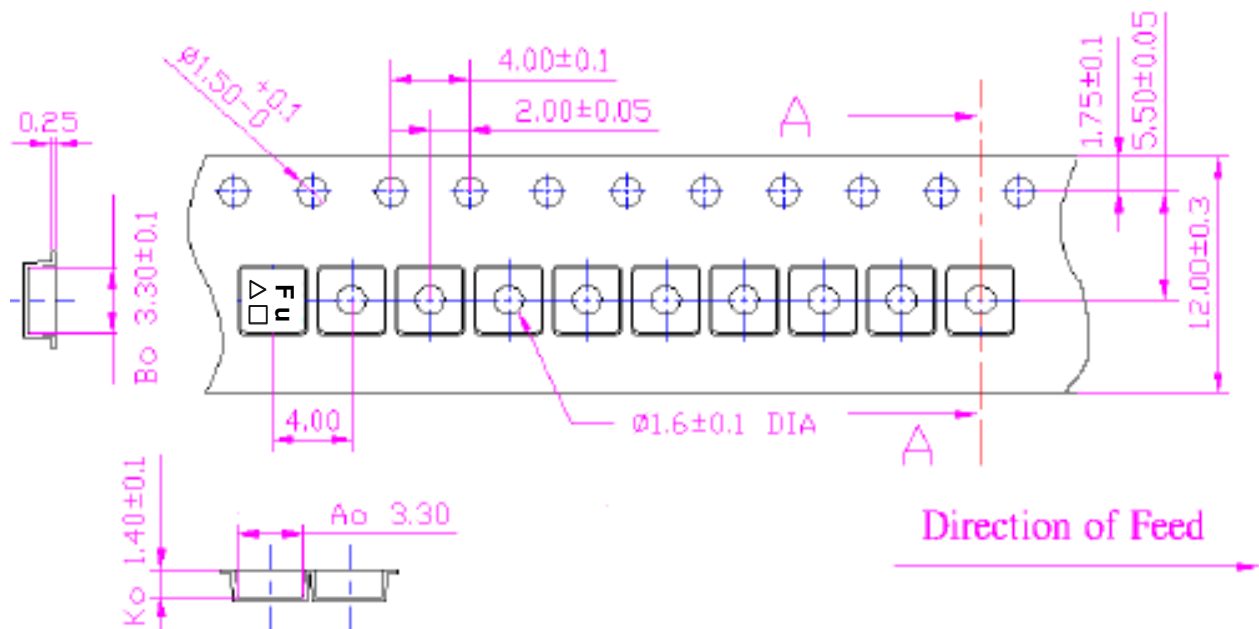
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



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.

