



TAI-SAW TECHNOLOGY CO., LTD.

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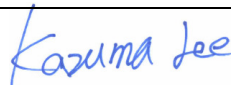
Product Specifications Approval Sheet

Product Description: 314.45MHz 1.3MHz BW SMD 3.0 x 3.0 mm SAW RF Filter

TST Parts No.: TA1630A

Customer Parts No.: _____

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Bob Chau 

Date: _____ 10/ 07/2016

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 314.45 MHz

MODEL NO.: TA1630A

REV. NO.: 1.0

A. MAXIMUM RATING:

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

RoHS Compliant
Lead free
Lead-free soldering

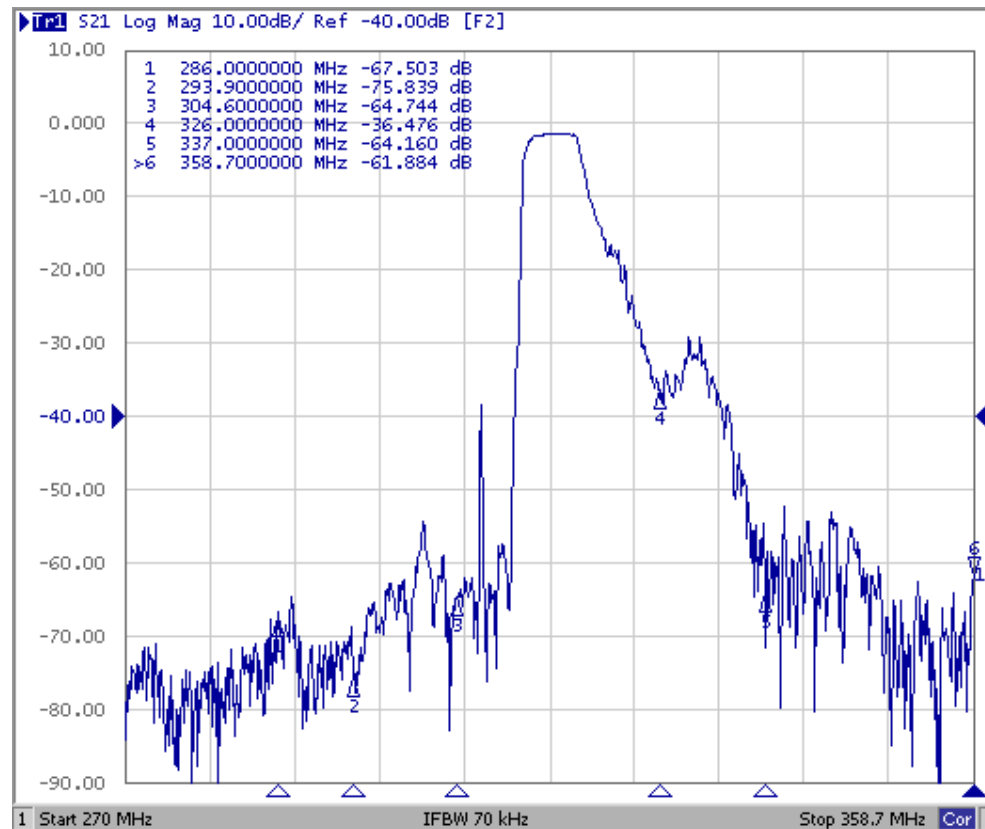
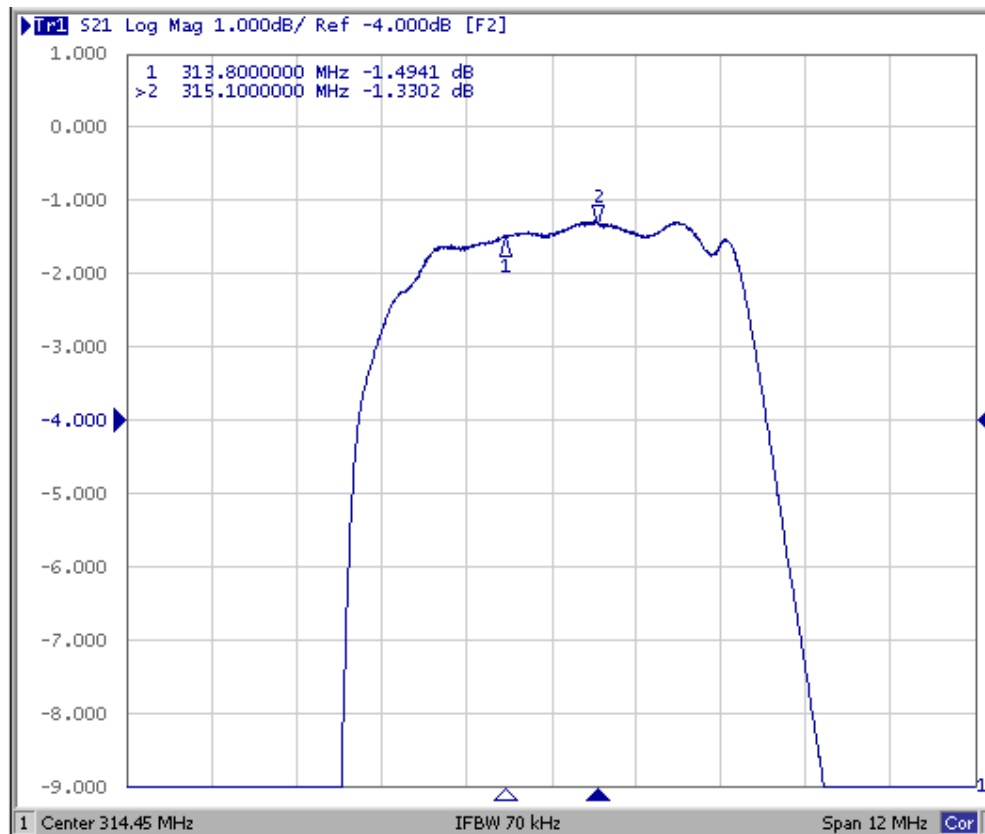
Electrostatic Sensitive Device (ESD)

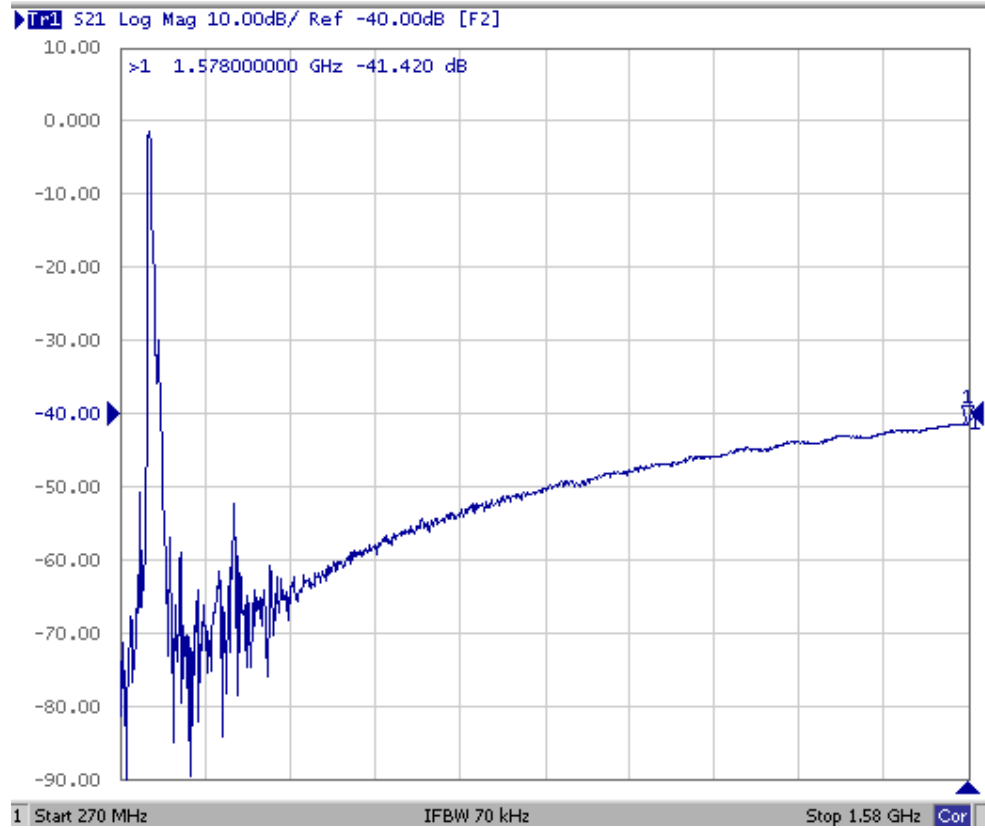
B. CHARACTERISTICS:

Item	Unit	Min.	Typical	Max.
Center frequency F _c	MH	-	314.45	-
Maximum Insertion loss 313.8 ~ 315.1 MHz IL	dB	-	1.5	2.5
Amplitude ripple 313.8 ~ 315.1 MHz	dB	-	0.4	1.2
VSWR 313.8 ~ 315.1 MHz			1.4	1.6
Attenuation (Reference level from Max IL dB)				
270.0 ~ 286.0 MHz	dB	55	65	-
293.0 ~ 293.9 MHz	dB	53	70	-
304.0 ~ 304.6 MHz	dB	48	67	-
325.4 ~ 326.0 MHz	dB	24	33	-
336.1 ~ 337.0 MHz	dB	36	56	-
357.5 ~ 358.7 MHz	dB	50	63	-
940.0 ~ 1578.0 MHz	dB	40	44	-
Source impedance Z _s	Ω	-	50	-
Load impedance Z _L	Ω	-	50	-
Temperature coefficient	ppm/k	-	-36	-

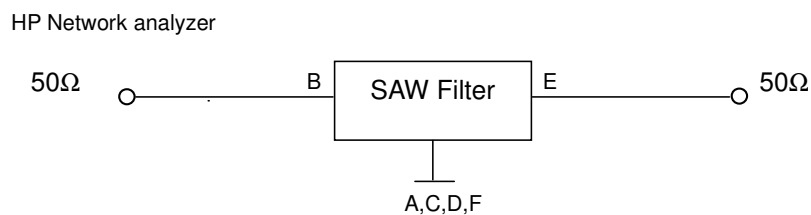
Note1. No matching network required for operation at 50Ω

C. TRANSFER FUNCTION:

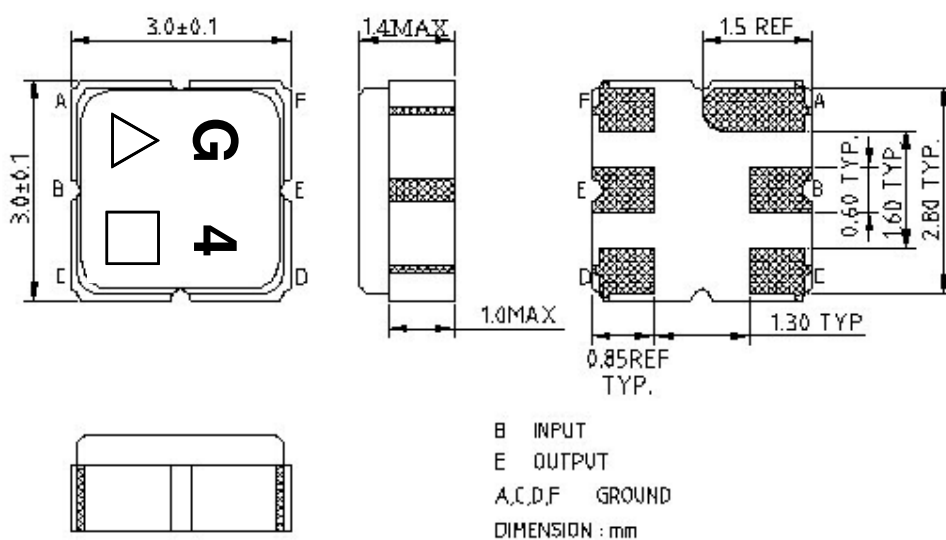




D. MEASUREMENT CIRCUIT:



E.OUTLINE DRAWING:

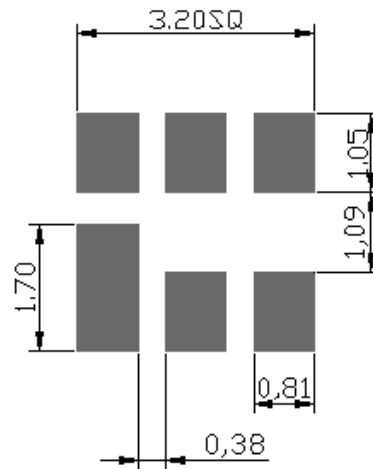


△:Product / Year Code (2011->1, ..., 2019->9, 2020->0, ...)

□ : Week Code

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

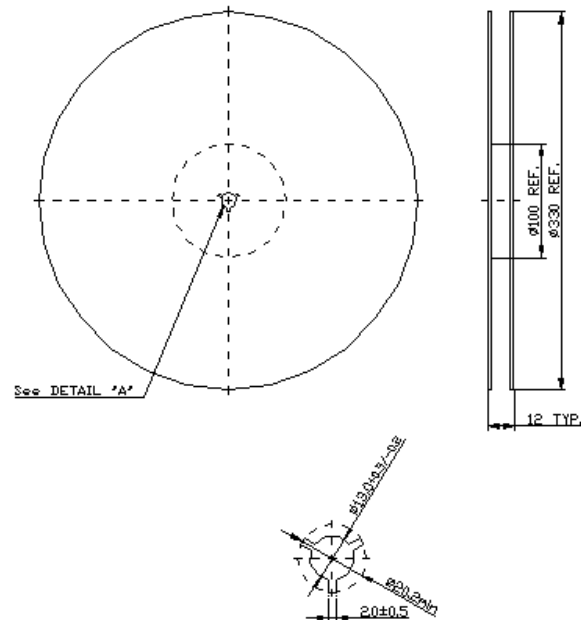
F. PCB FOOTPRINT:



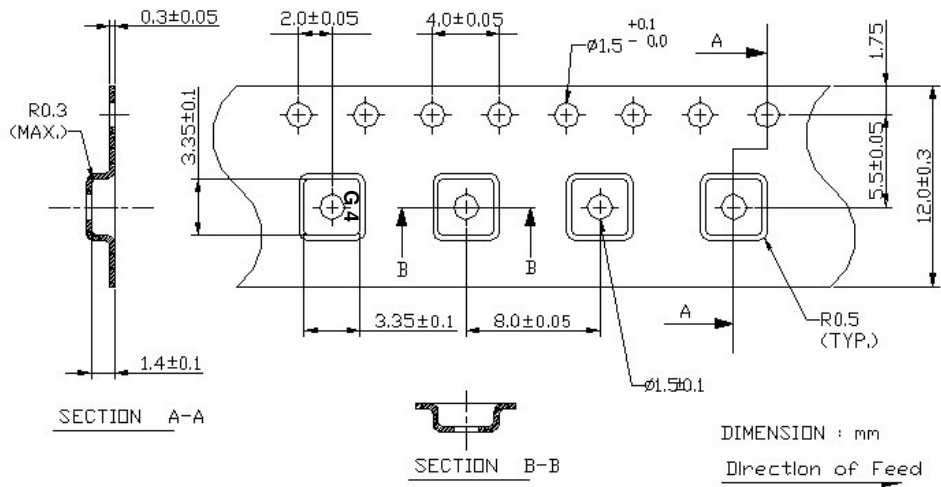
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150 \sim 180^{\circ}\text{C}$ 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 $260^{\circ}\text{C} \pm 0/-5^{\circ}\text{C}$ peak (20~40sec).
4. Time: 2 times.

