



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Description: 140 MHz 7.7MHz BW SMD 20.0 x 9.8 mm SAW IF Filter

TST Parts No.: TB1167A

Customer Parts No.: _____

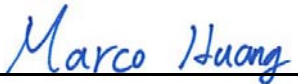
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Marco Huang 

Approval by: _____ Bob Chau 

Date: _____ 08/06/2015

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 140MHz 7.7MHz BW (SMD 20.0×9.8 mm)

MODEL NO.: TB1167A

REV. NO.2

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 70°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level : 10 dBm
4. Maximum DC Voltage : 10V

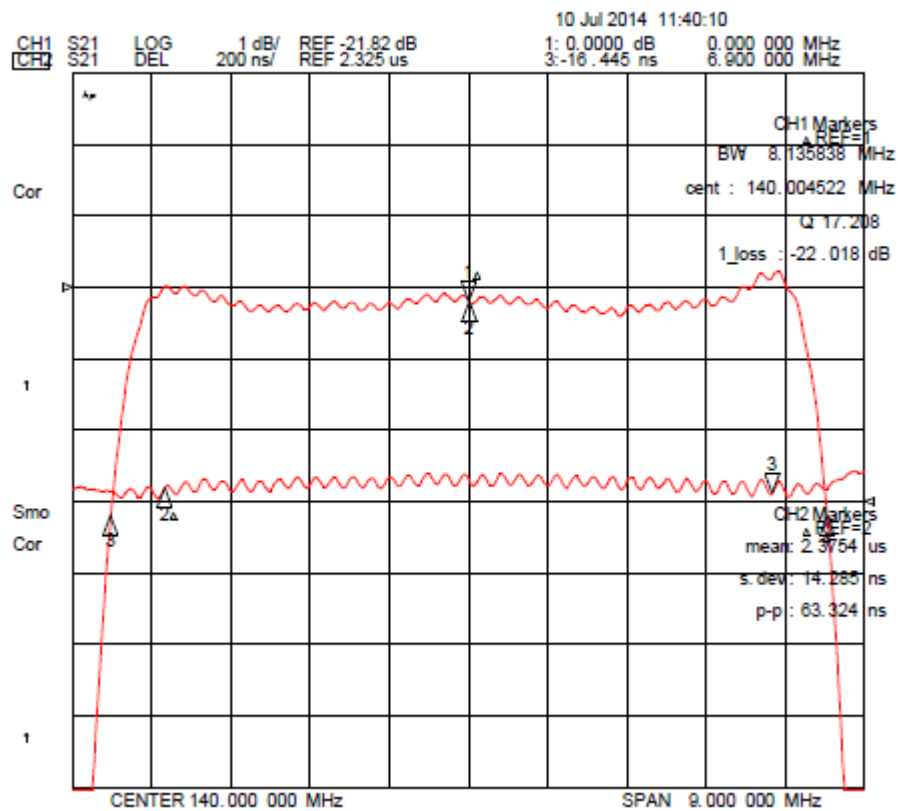
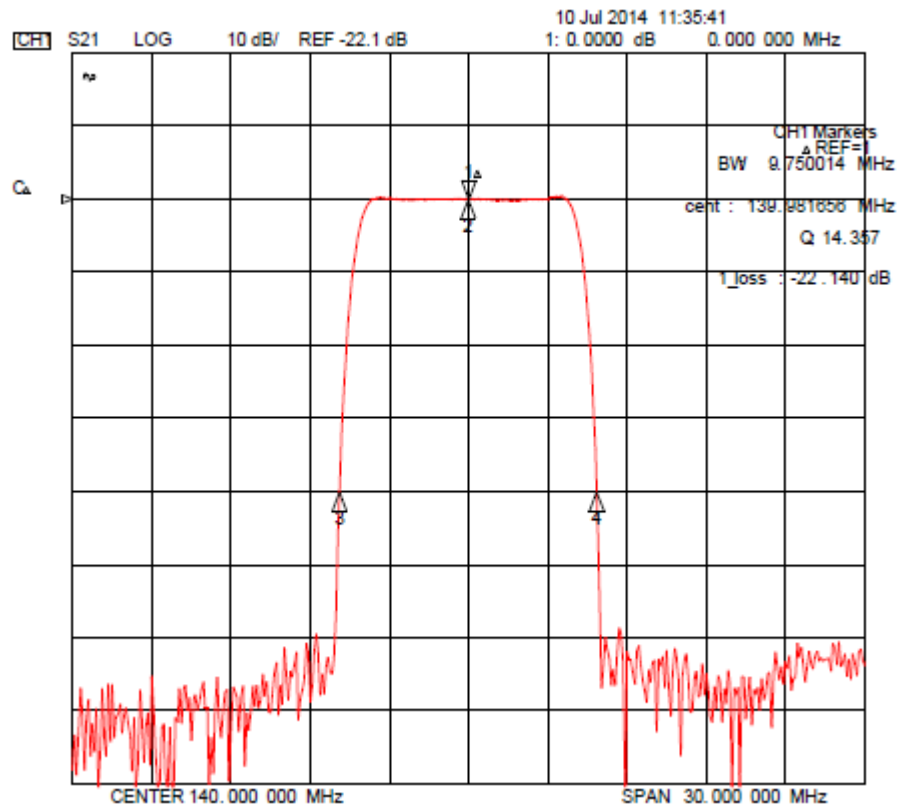
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

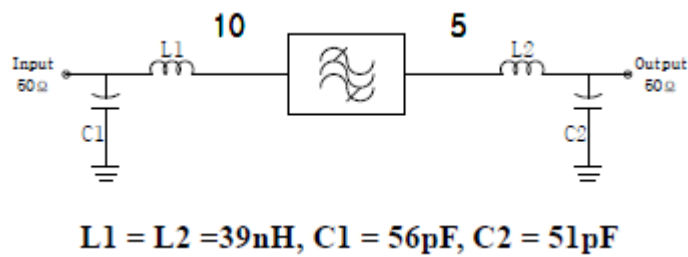
B. Characteristics :

Item	Unit	Min.	Type.	Max.
Center frequency, Fc	MHz	-	140	-
Insertion Loss, IL	dB	-	22.0	23.5
1dB Bandwidth	MHz	7.6	7.76	-
3dB Bandwidth	MHz	-	8.13	-
40dB Bandwidth	MHz	-	9.75	9.9
Passband Ripple Fc+/- 3.31MHz	dB	-	0.6	1.0
Absolute group Delay	us	-	2.37	-
Group Delay variation Fc+/- 3.31MHz	ns	-	60	90
Attenuation (Reference level from minimum Insertion loss)				
Ultimate Rejection	dB	48	55	-
Temperature Coefficient	ppm/°C	-	-18	-
Source Impedance	Ohm	-	50	-
Load Impedance	Ohm	-	50	-

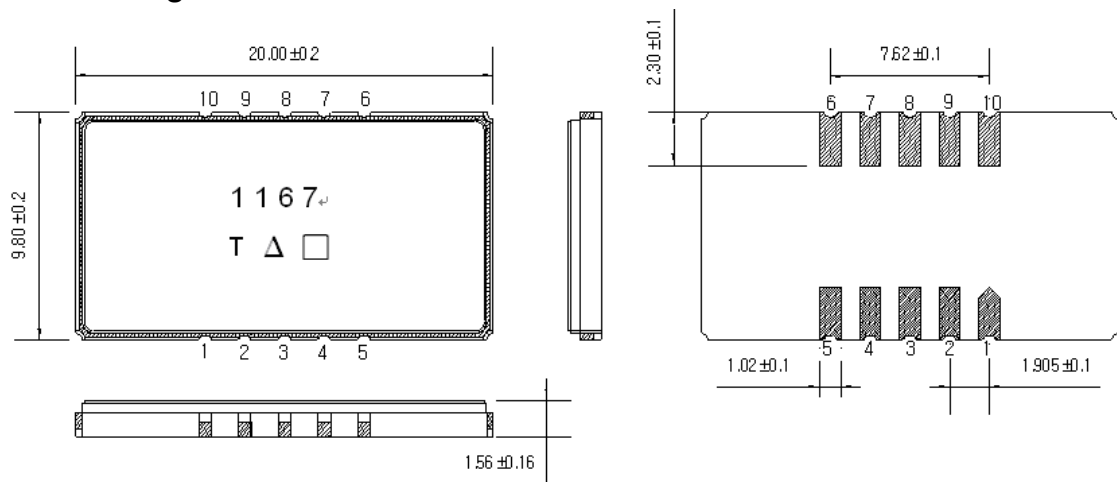
C. Frequency Characteristics:



D. Matching Circuit:



E. Outline Drawing:



#10 : Input

#1 : Input Ground

#5 : Output

#6 : Output Ground

2,3,4,7,8,9 : Ground

□: Week Code

Unit: mm

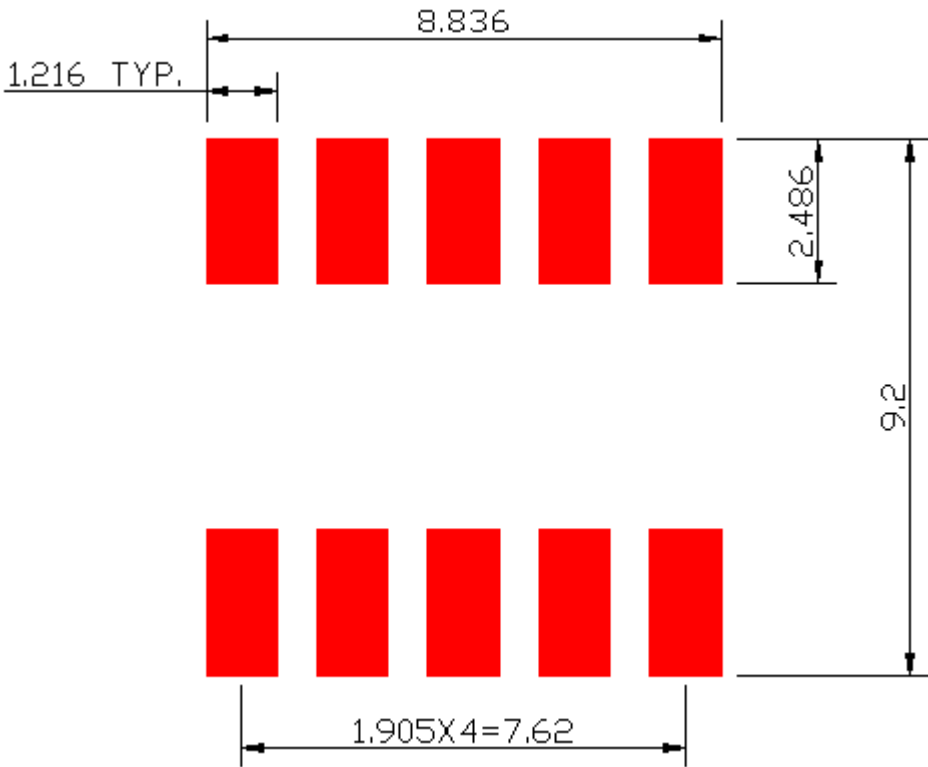
△ : Product / Year Code

Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	B	b	<u>B</u>	<u>b</u>

Week Code Table

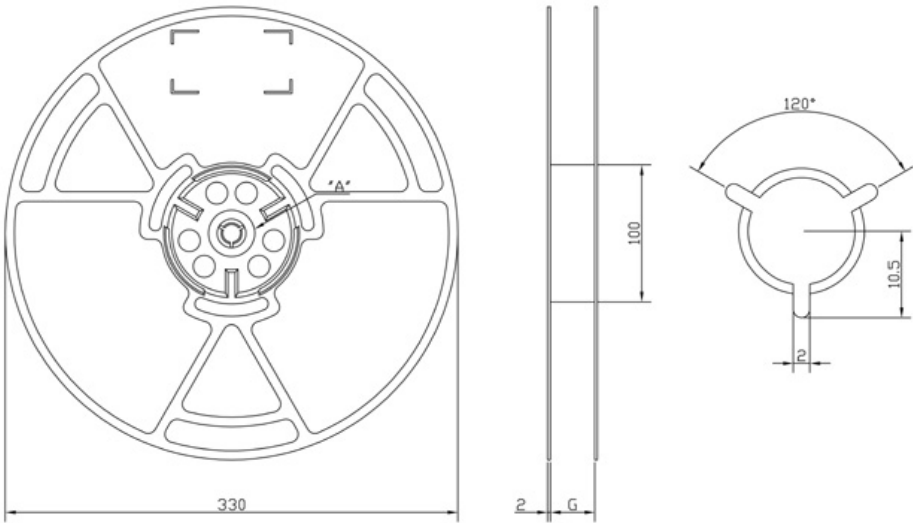
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB Footprint:

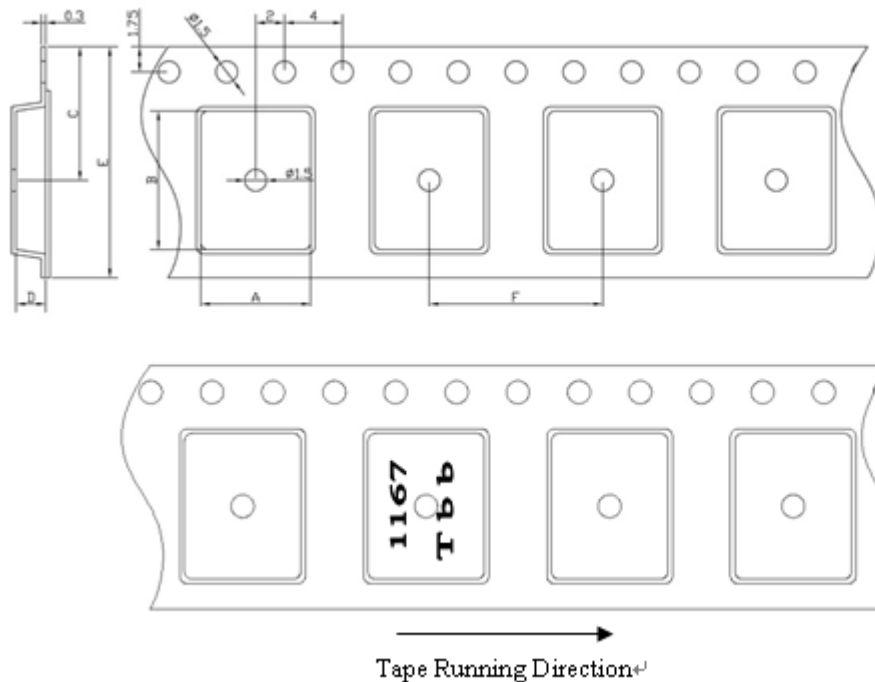


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



A↵	10.10 ± 0.2↵
B↵	20.30 ± 0.2↵
C↵	15.95 ± 0.2↵
D↵	1.85 ± 0.2↵
E↵	32.00 ± 0.3↵
F↵	16.00 ± 0.1↵

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.

