TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Description: SAW Filter 2235 MHz SMD 3.0X3.0 mm (BW=70MHz)

TST Part No.: TA1187B

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen

Approved by:_____ Andy Yu

Date:_____ 2018.10.04

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 2235 MHz

MODEL NO.:TA1187B REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm (In band), 15 dBm (Out of band)
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1
6. ESD 50V(MM) 100V(HBM)

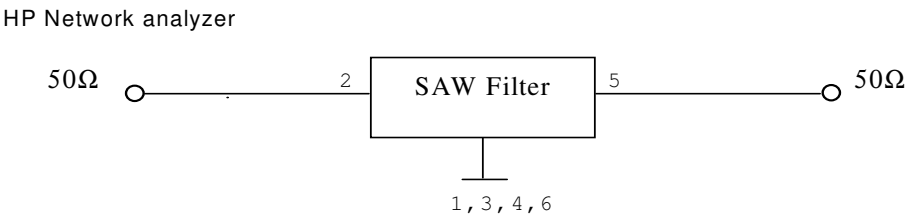
RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

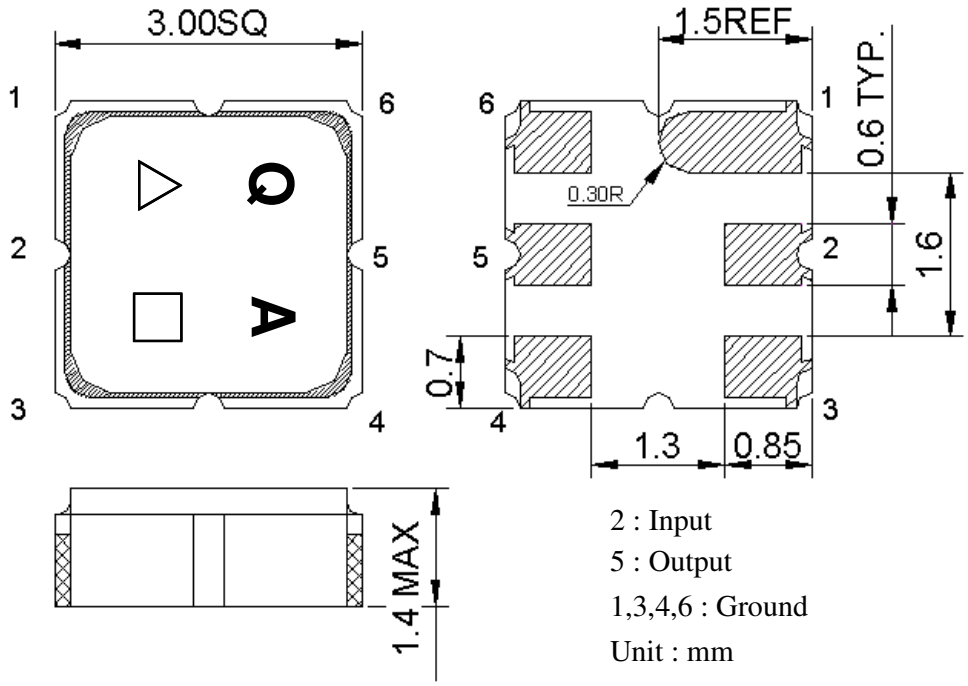
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency **Fc**	MHz	-	2235	-	-
Insertion Loss (2200~2270 MHz) **IL**	dB	-	2	3.2	-
Amplitude Ripple (Variation over 3MHz)	dB	-	0.5	1	-
Group Delay Ripple (Variation over 3MHz)	ns		5	12	
VSWR (2200~2270 MHz)		-	2	2.4	-
Attenuation (Reference level from 0 dB)					
D.C ~ 2100 MHz	dB	28	30	-	-
2100 ~ 2135 MHz	dB	30	40	-	-
2135 ~ 2170 MHz	dB	4	14	-	-
2300 ~ 2335 MHz	dB	4	14	-	-
2335 ~ 3500 MHz	dB	30	35	-	-
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	-

C. MEASUREMENT CIRCUIT:



D.OUTLINE DRAWING:



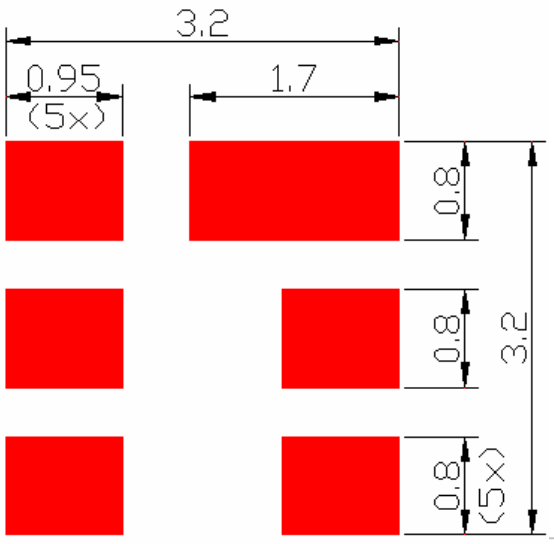
2 : Input
5 : Output
1,3,4,6 : Ground
Unit : mm

△ : Year Code (2009->9, 2010->0,…, 2018->8)
□ : Date Code (W01->A,W02->B,…W27->a,…,W52->z)

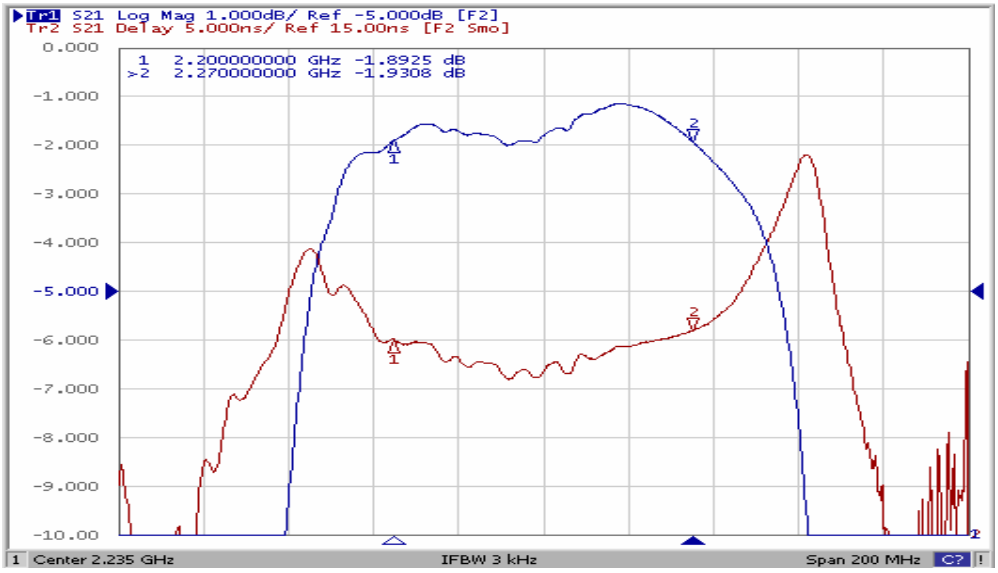
Date Code Table

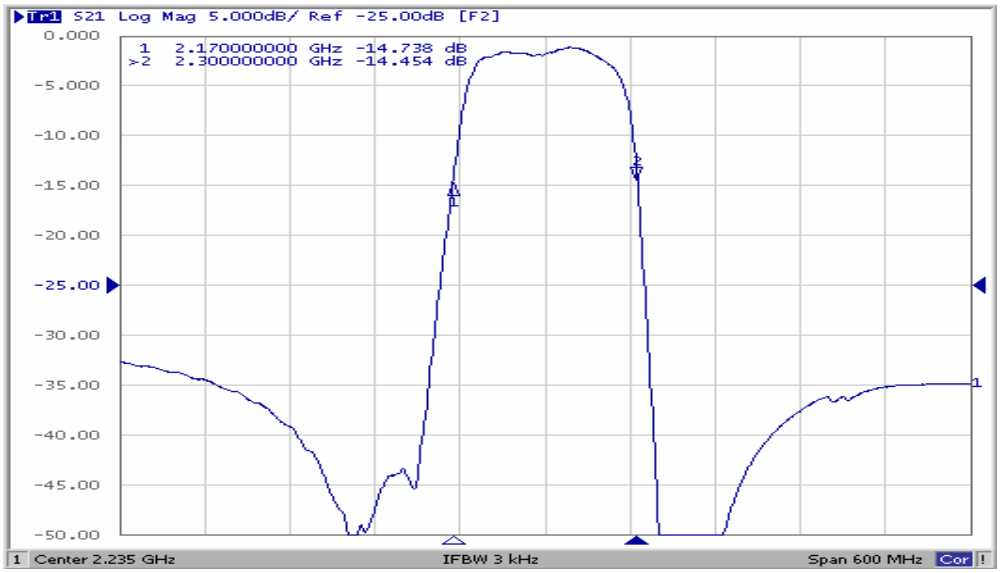
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	**WK15**	**WK16**	**WK17**	**WK18**	**WK19**	**WK20**	**WK21**	**WK22**	**WK23**	**WK24**	**WK25**	**WK26**
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	**WK28**	**WK29**	**WK30**	**WK31**	**WK32**	**WK33**	**WK34**	**WK35**	**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

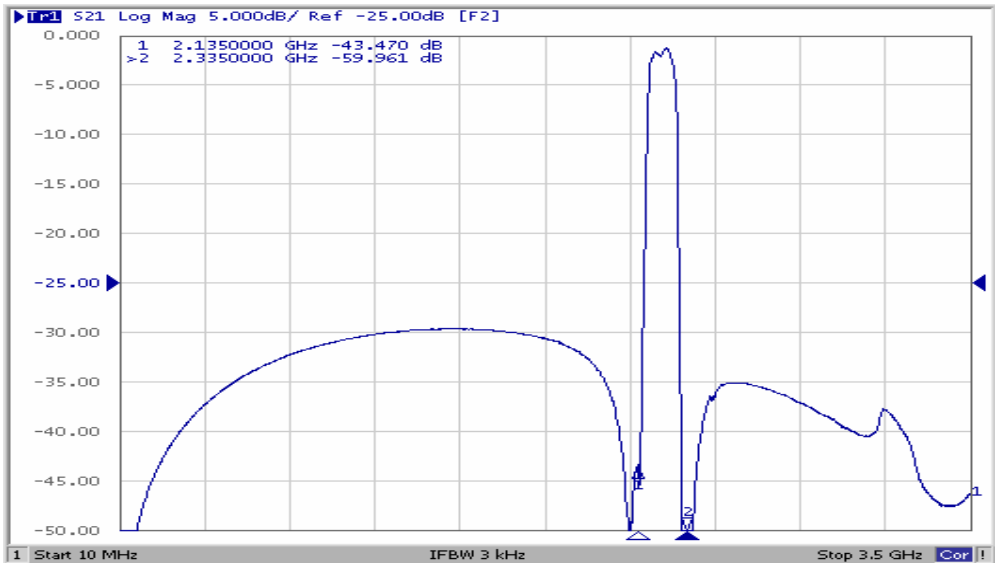
E. PCB Footprint:



F. Frequency Characteristics :

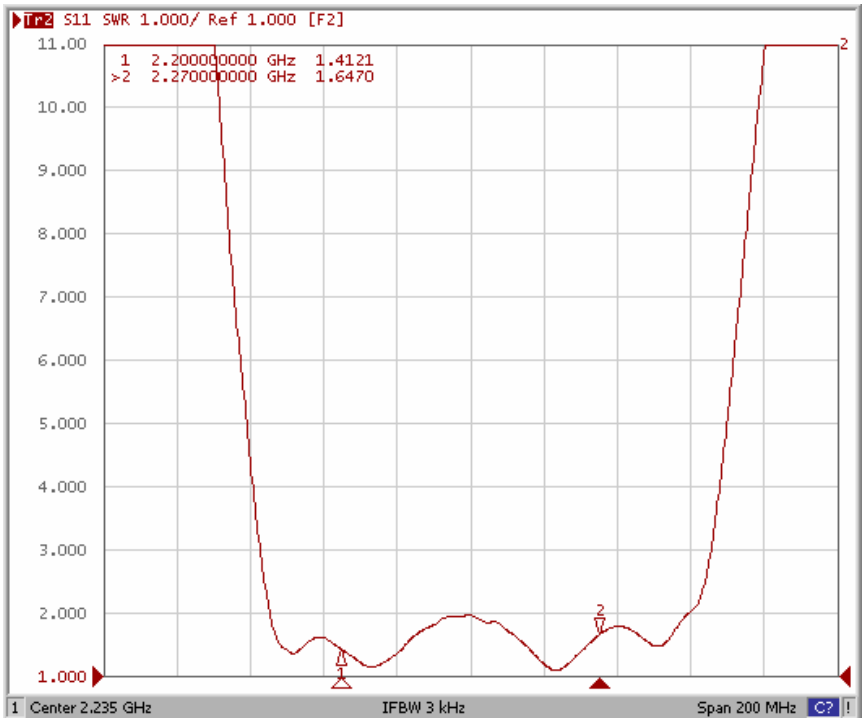




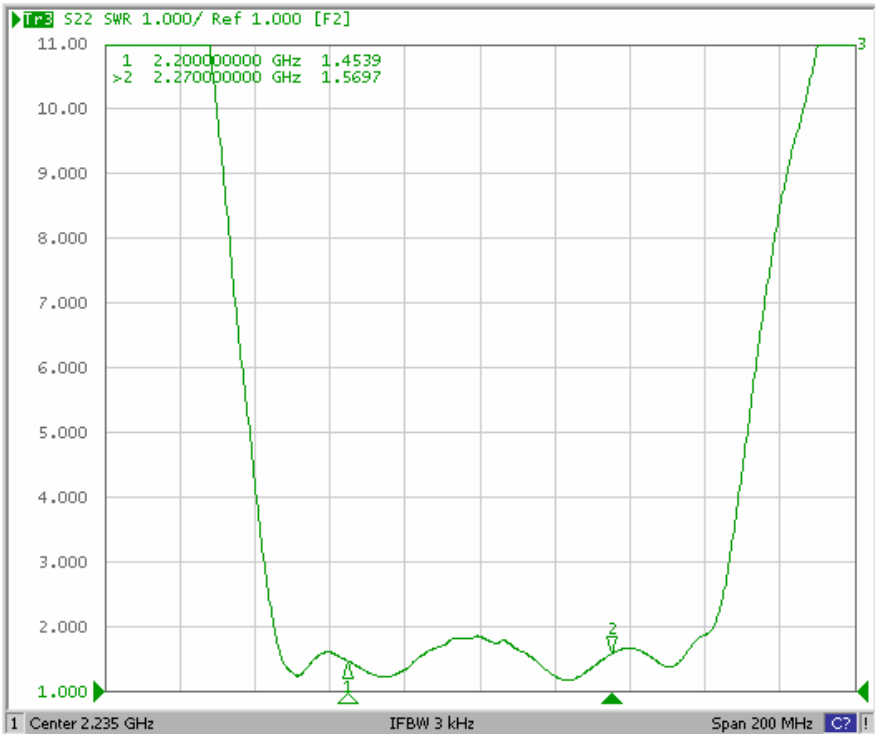


Reflection Functions :

S11



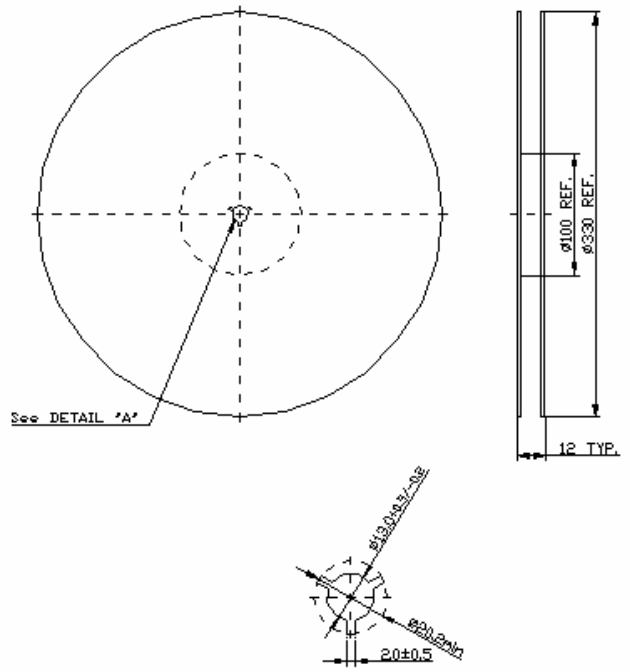
S22



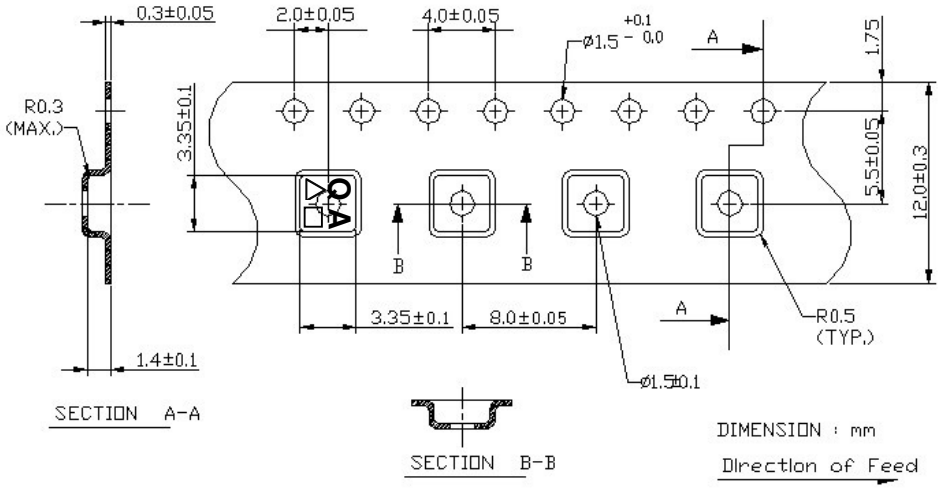
G. PACKING:

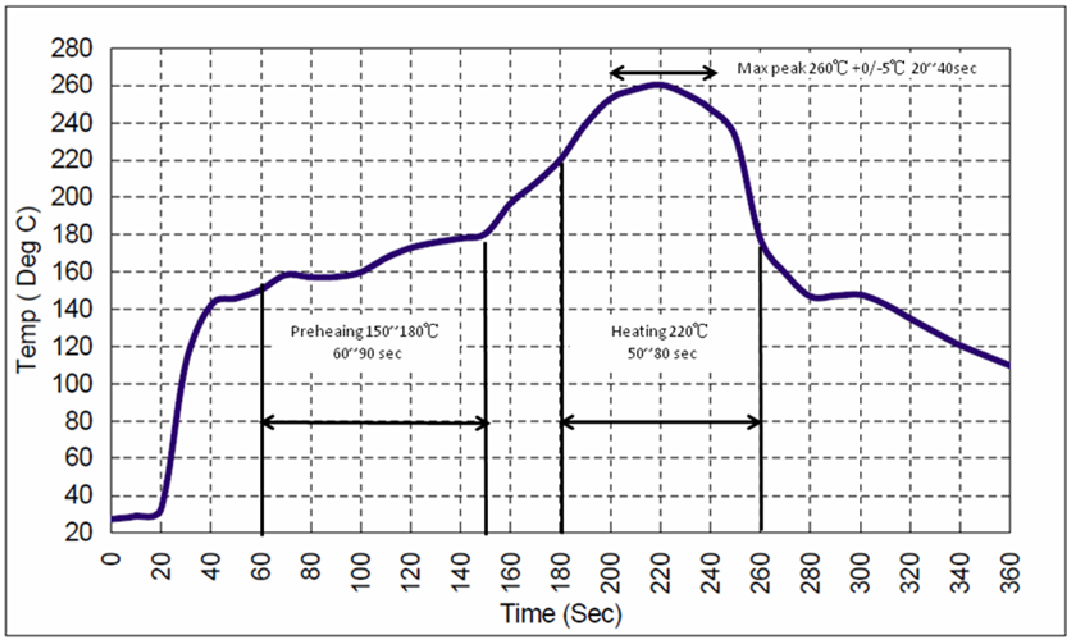
1. REEL DIMENSION

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



2.TAPE DIMENSION



H . <u>RECOMMENDED REFLOW PROFILE</u> :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.