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 Name: SAW Filter 1583 MHz SMD 3.0X3.0 mm

TST Parts No.: TE0125A

Customer Parts No.: _____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Sam Lin _____

Approval by:_____ Bob Chau _____

Date:_____ 2017/05/25 _____

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 1583 MHz

MODEL NO.:TE0125A REV. NO.:1.0

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m

2.DC voltage: 0 V

3.Operating Temperature: : -30°C to +70°C

4.Storage Temperature: -40°C to +80°C

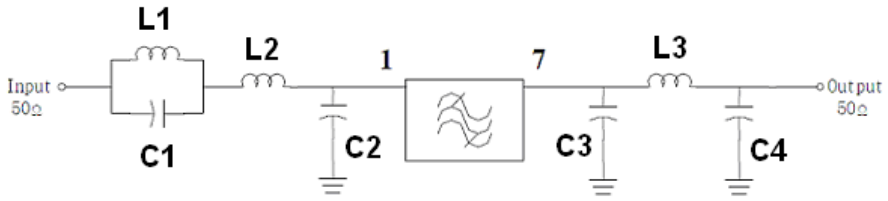
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center Frequency	MHz	-	1583	-
Insertion loss				
689 ~ 960 MHz	dB	-	2.5	2.7
1710 ~ 1805 MHz	dB	-	3.3	3.5
1805 ~ 2170 MHz	dB	-	2.2	2.5
2300 ~ 2690 MHz	dB	-	3.3	3.5
Attenuation (Reference level from 0 dB)				
1559 ~ 1607 MHz *	dB	14	20	-

*Specification under operating temperature

C. MEASUREMENT CIRCUIT:

(Actual matching values may vary due to PCB layout and parasitics)

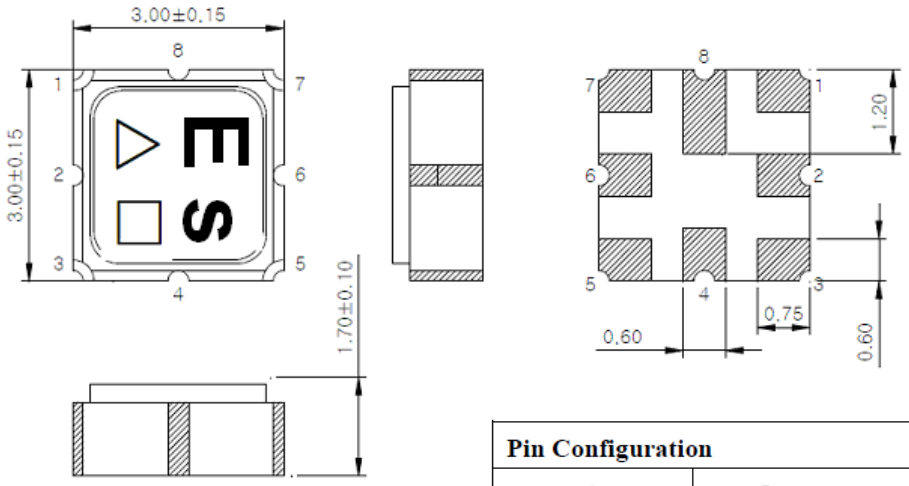


L1 = 2.2 nH, L2 = 15nH, L3 = 1.2 nH
C1 = 3.3 pF, C2 = 1 pF, C3 = C4 = 1 pF

Note : Recommend using an inductor. (Q factor 40 @ 770MHz)

TST DCC
Release document

D.OUTLINE DRAWING:



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

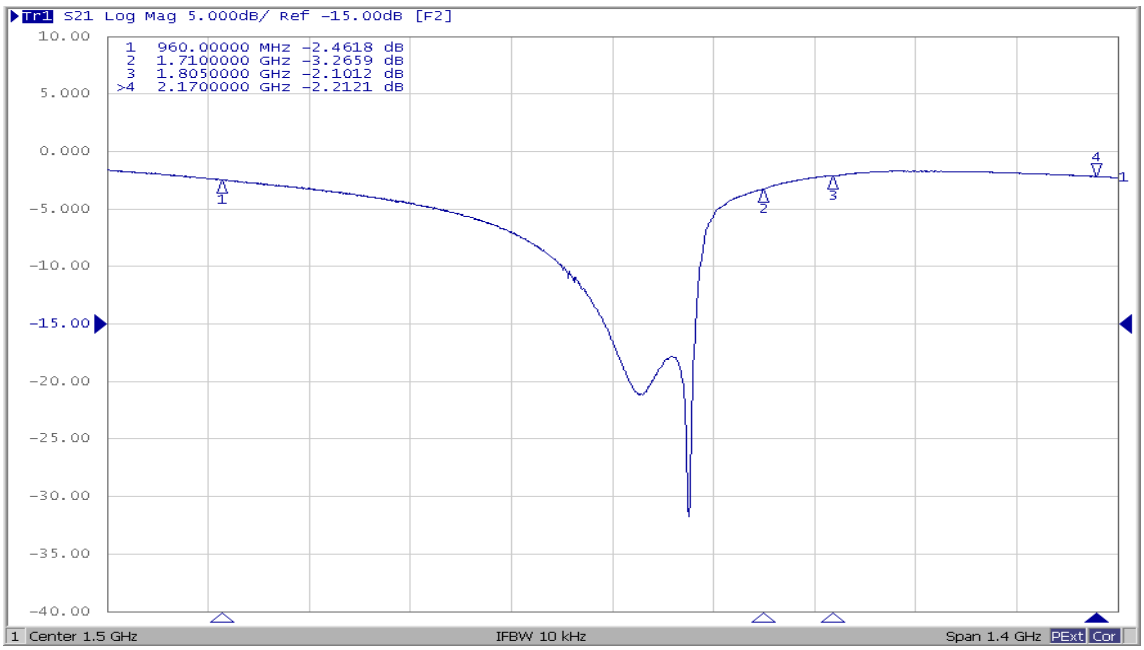
□ : Date Code (Follow the table from planner each year)

Pin Configuration	
1	Input
7	Output
5, 3	To be grounded
2, 4, 6, 8	Case ground

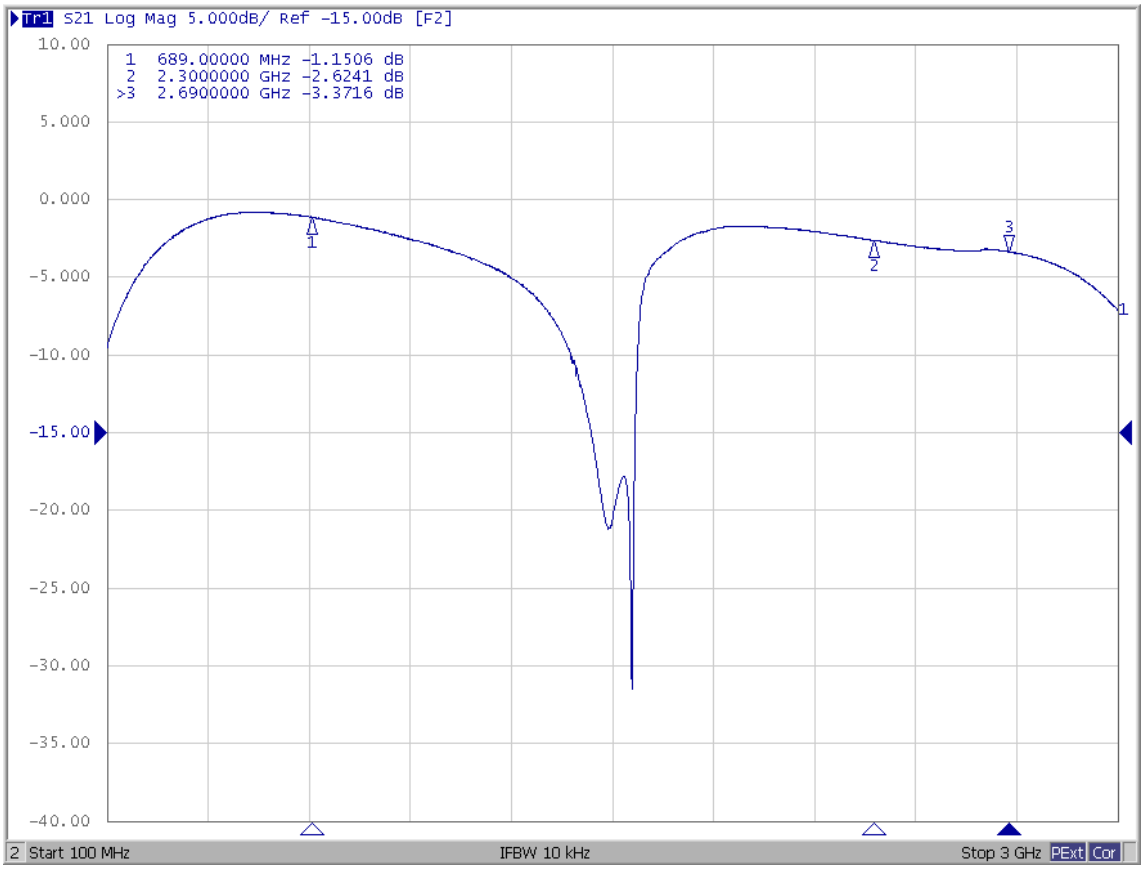
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. Frequency Characteristics :

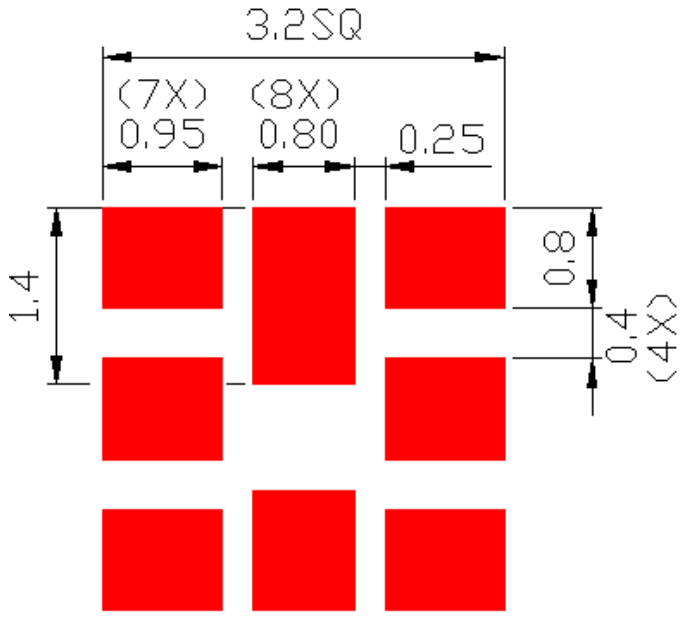
Span 1400 MHz



Start 100 MHz, stop 3000 MHz



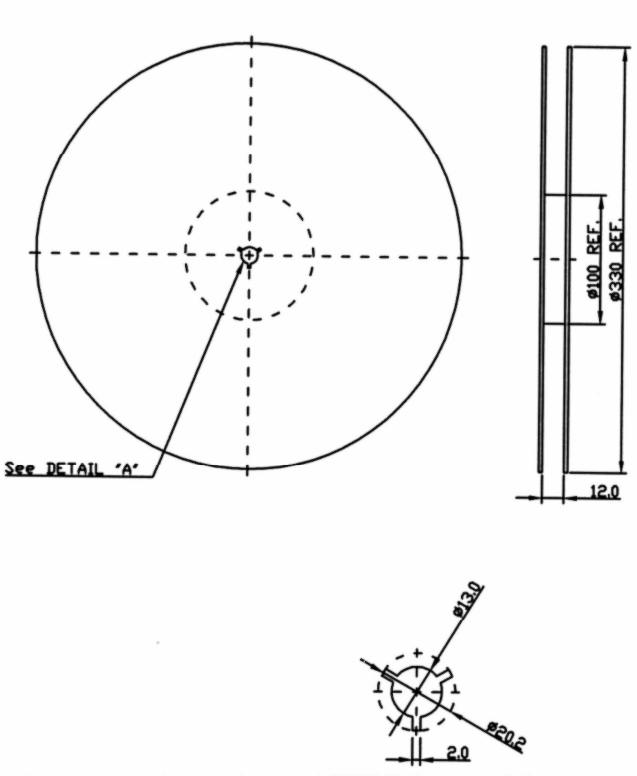
F. PCB FOOTPRINT:



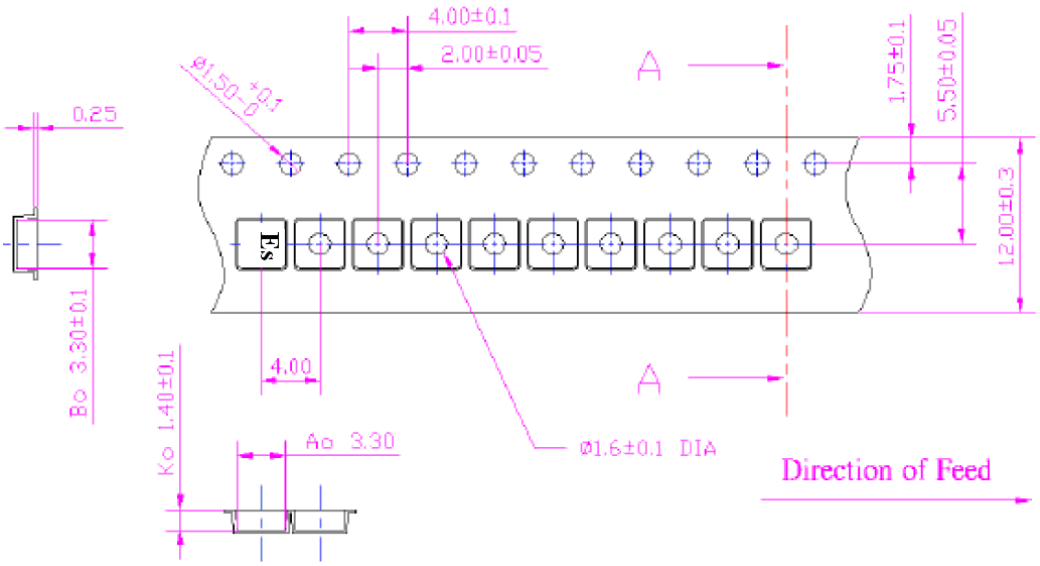
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ 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 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.