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: 836.5/897.5 MHz SAW band-stop filter SMD 3.0×3.0mm

TST Parts No.: TE0135A

Customer Parts No.: _____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Sam Lin _____

Approval by:_____ Andy Yu _____

Date:_____ 2018/09/18 _____

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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Band Stop Filter 836.5/897.5 MHz DVB-T/LTE Notch SMD 3.0×3.0mm

MODEL NO.: TE0135A Rev.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +105°C
4. Storage Temperature: -40°C to +105°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

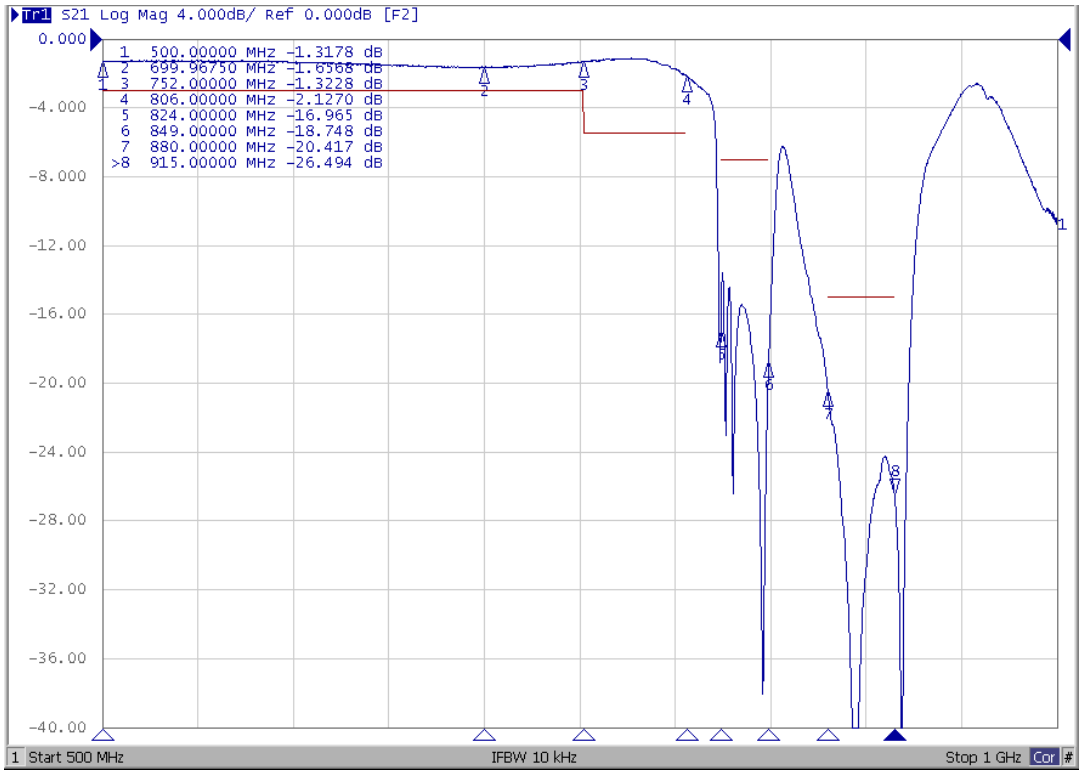
B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency	MHz	-	836.5 897.5	-
Minimum Insertion Loss (470 ~ 752 MHz)	dB	-	0.8	2.0
Maximum Insertion Loss				
470 ~ 752 MHz	dB	-	1.6	3.0
752 ~ 806 MHz	dB	-	2.1	5.5
Maximum VSWR				
Input port (470 ~ 752 MHz)	-	-	2.4	-
Output port (470 ~ 752 MHz)	-	-	2.5	-
Attenuation (reference from 0dB)				
87 ~ 108 MHz	dB	17	21	-
174 ~ 240 MHz	dB	7	11	-
824 ~ 849 MHz	dB	7	14	-
880 ~ 915 MHz	dB	15	20	-
1710 ~ 1785 MHz	dB	28	54	-
1850 ~ 1910 MHz	dB	32	52	-
1920 ~ 1980 MHz	dB	32	52	-
Source impedance Z_S	Ω	-	50	-
Load impedance Z_L	Ω	-	50	-

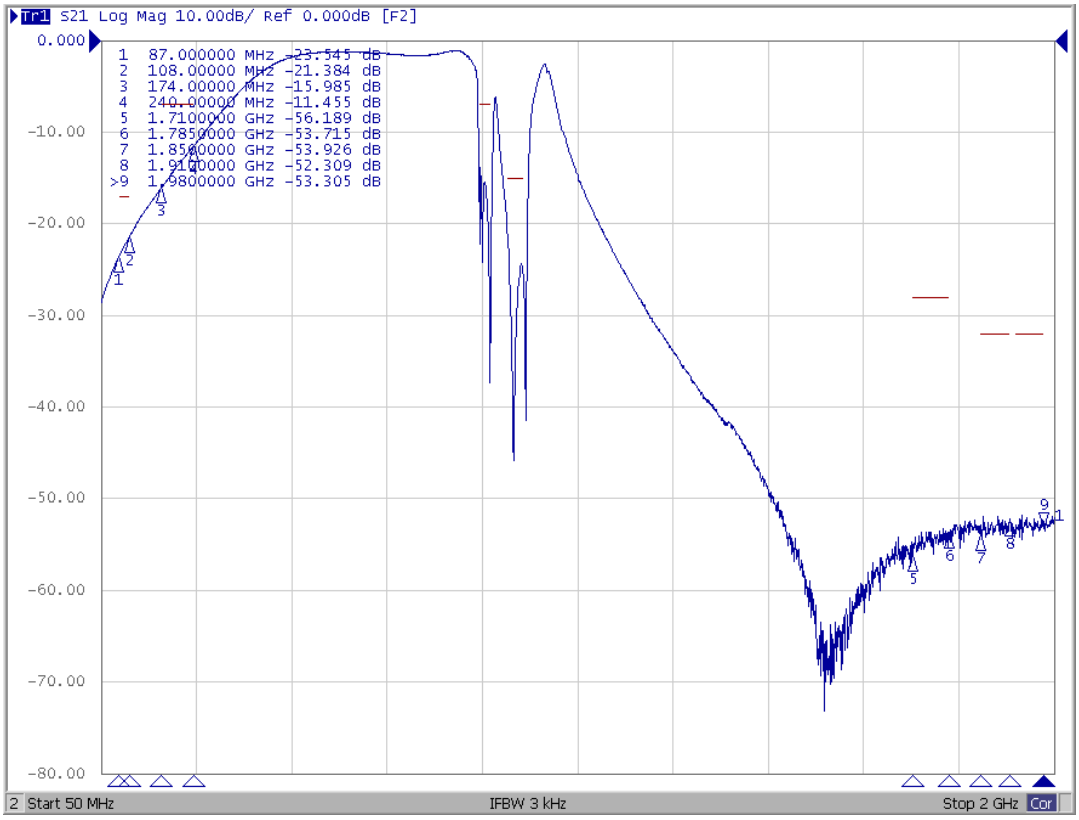
Note1. Specification for ILmax is 3.5dB for -10°C to +60°C.

C. Transfer Function :

Stop Band



Wide Band

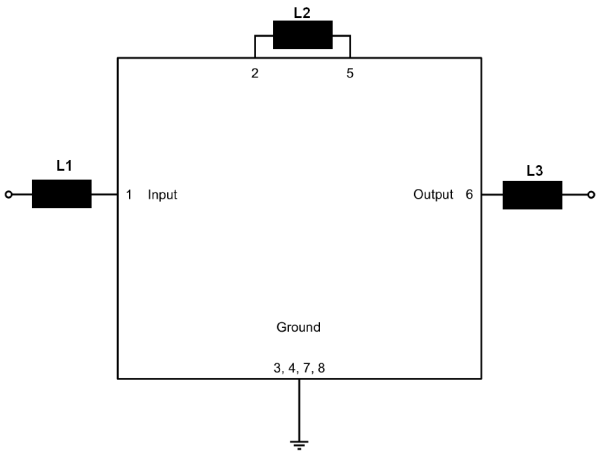


D. MEASUREMENT CIRCUIT:

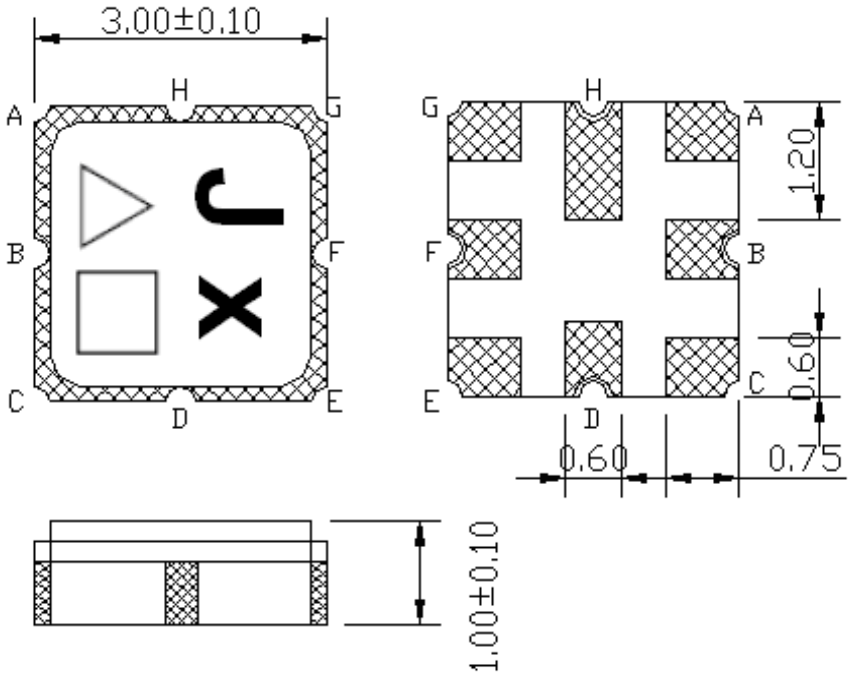
L_1 = 18 nH

L_2 = 27 nH

L_3 = 21 nH



E. OUTLINE DRAWING:

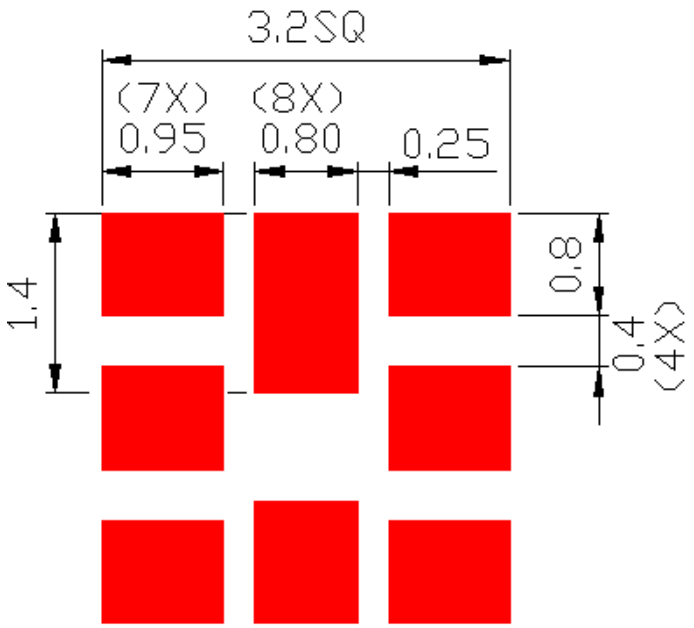


△ : Year Code (2009->9, 2010->0,…, 2018->8)

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

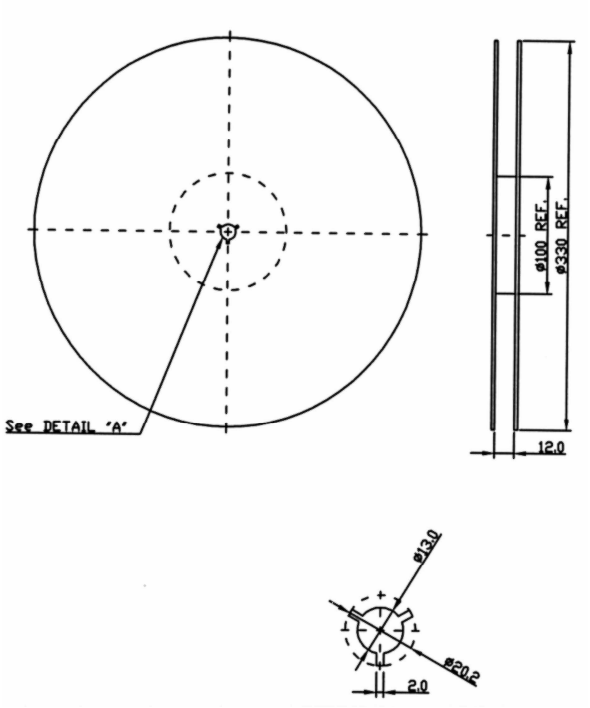
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB FOOTPRINT:

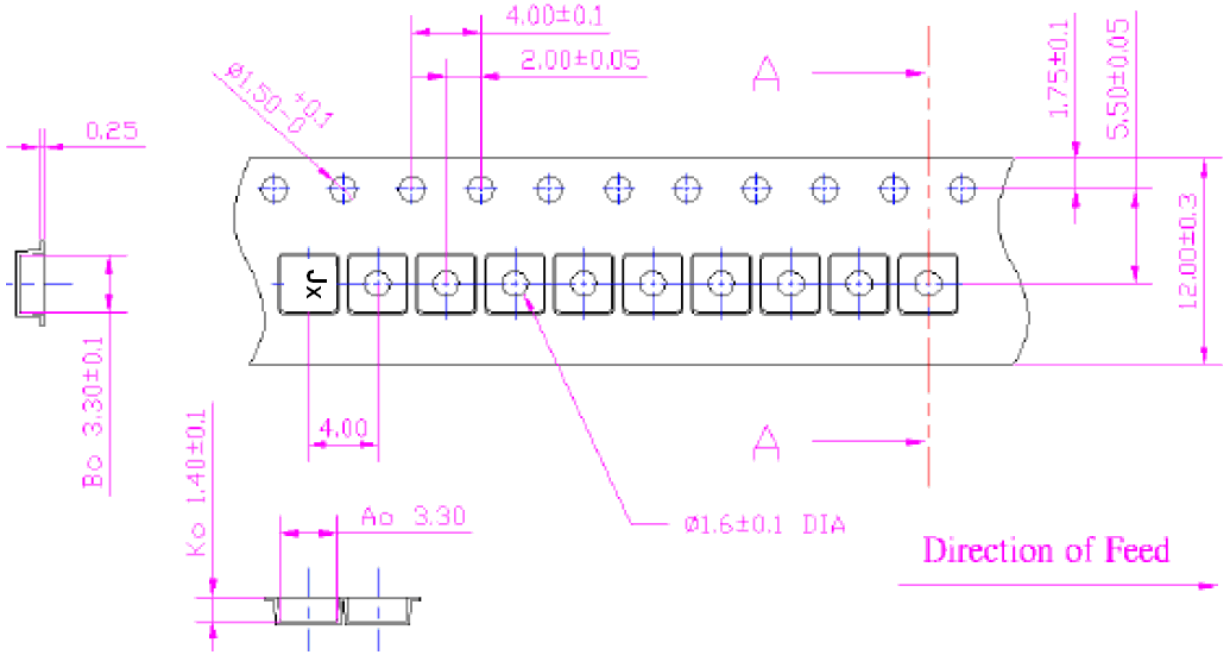


G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



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 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.