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 Filt	er 458.8875 MHz	(BW 0.775MHz) SN	MD 3.8X3.8 mm
TST Parts No.: TA1959A			
Customer Parts No.:			
Company:			
Division:			
Approved by :			
Date:			
Checked by:	Sam Lin	JanLin	
Checked by:Approval by:	Andy Yu	Andy In	
Date:	2018/11/30		

- 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 458.8875MHz

MODEL NO.:TA1959A REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm

2. DC Voltage: 3 V

3. Operating Temperature: -40 °C to +85 °C

4. Storage Temperature: -40 °C to +85 °C

5. Moisture Sensitivity Level: Level 1(MSL1)

Electrostatic Sensitive Device (ESD)

RoHS Compliant

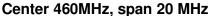
Lead free Lead-free soldering

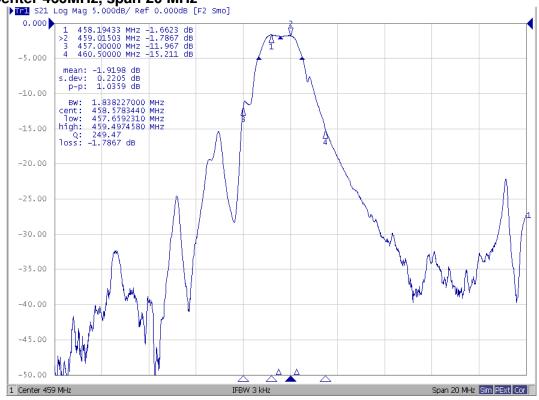
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single): $Zs = 50 \Omega$ Terminating load impedance (single): $ZL = 50 \Omega$

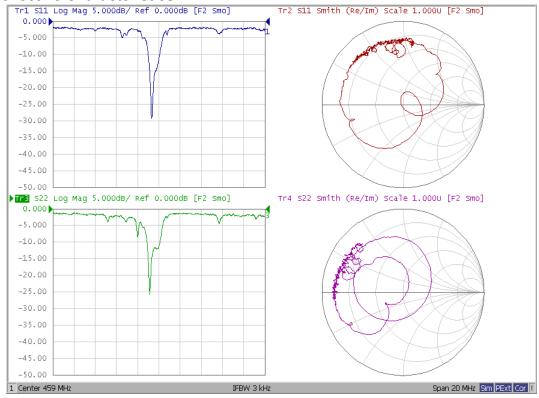
Item	Unit	Min	Туре.	Max
Center Frequency	MHz	-	458.8875	-
Maximum Insertion Loss (458.5 ~ 459.275 MHz)	dB		3.0	4.0
Amplitude Ripple (458.5 ~ 459.275 MHz)	dB	1.2		2.0
2dB Bandwidth	MHz	0.775	1.500	
Attenuation (Reference level from IL min)				
10 ~ 135.9 MHz	dB	40	65	
135.9 ~ 446.5 MHz	dB	30	40	
446.5 ~ 457 MHz	dB	10	13	
460.5 ~ 469.8 MHz	dB	10	15	
469.8 ~ 515 MHz	dB	22	30	
515~1000 MHz	dB	40	44	
Temperature	ppm/k ²		-0.036	
Impedance (By NA simulation)				
Input: ZIN = Ls1/Cp1	nH/pF		90/5	
Output: ZOUT = Ls2/Cp2	nH/pF		88/5	

C. Frequency Characteristics:

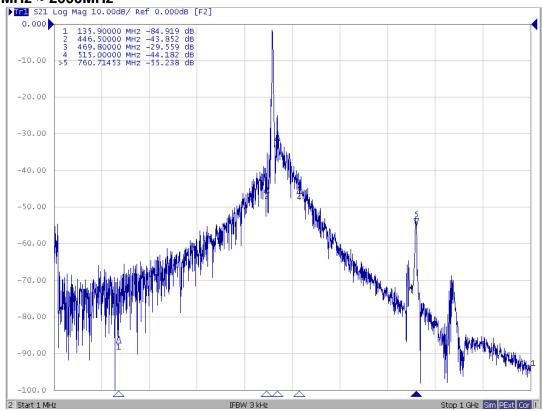




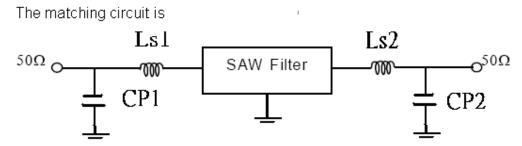
Reflective Characteristics



1MHz ~ 2000MHz

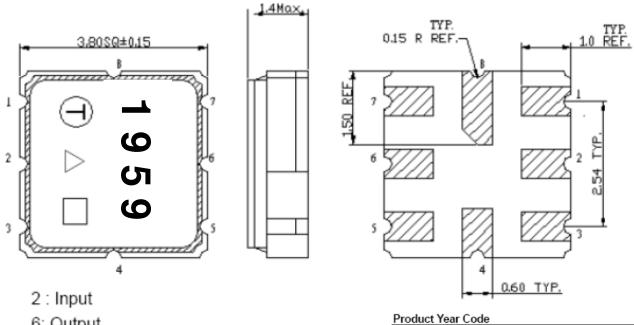


D.. TEST CIRCUIT:



Ls1 = 90nH, Ls2 = 88nH, Cp1 = 5pF, Cp2=5pF

E.OUTLINE DRAWING:



6: Output

1,3,4,5,7,8: Ground

∴ Year Code

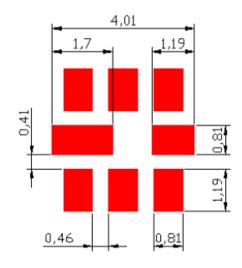
☐ : Date Code (W01->A, W02->B,...,W52->z)

Product Year Code				
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	Α	a	Α	a

Date Code Table:

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
Α	В	С	D	E	F	G	H	Į.	J	K	L,	М
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N _a	0	Р	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
а	b	С	d	е	f	g	h	į	j	k	I,	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	0	р	q	r	S	t/	ü	٧	.W.	Х	ÿ	Z

F. PCB FOOTPRINT:

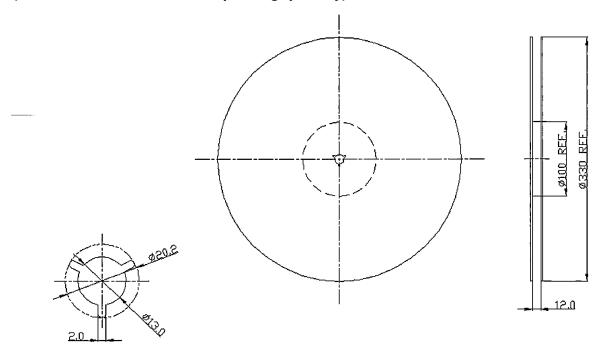


TAI-SAW TECHNOLOGY CO., LTD.

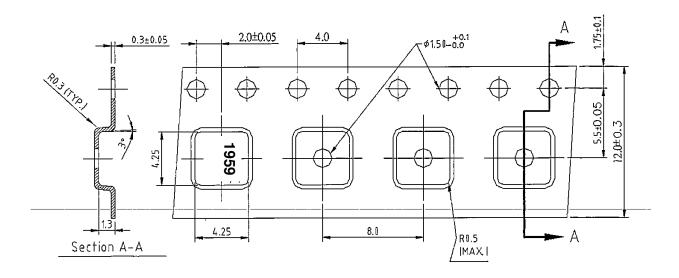
G. PACKING:

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°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.

