



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Name: SAW Filter 1542 MHz SMD 3.0x3.0 mm (BW=34 MHz)

TST Parts No.:TA1926A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ David Chang 

Approved by:_____ Andy Yu 

Date:_____ 2018/12/04

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 1542 MHz

MODEL NO.: TA1926A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

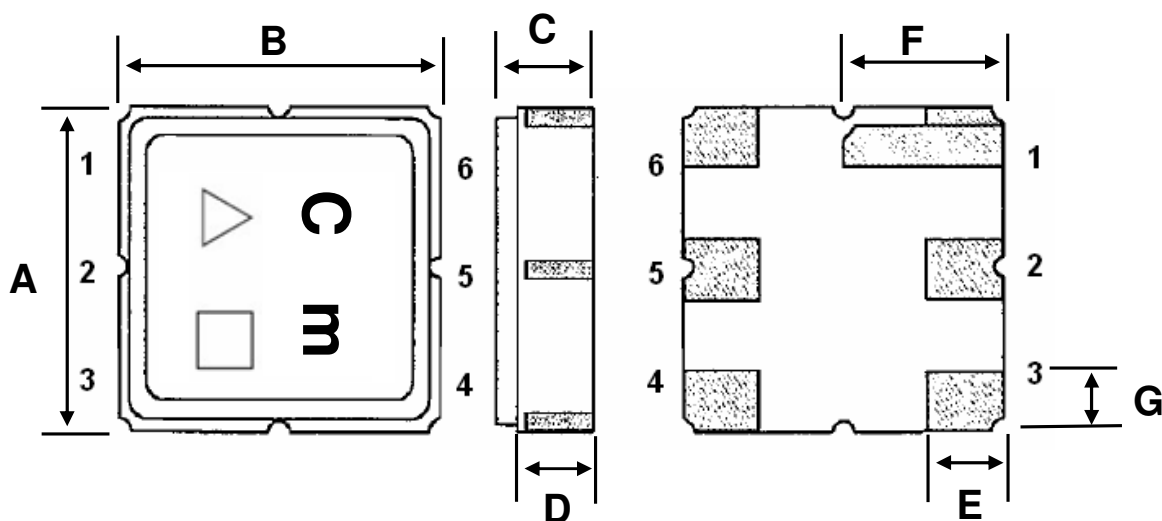
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance(single): Z_s=50 Ω

Terminating load impedance(balanced): Z_L=50 Ω

Item	Unit	Min.	Typ.	Max.
Center frequency F_c	MHz	-	1542	-
Insertion Loss (1525~1559 MHz) IL	dB	-	3.4	4.5
Amplitude ripple (1525~1559 MHz)	dB	-	0.8	1.5
Input _ VSWR (1525~1559 MHz)	-	-	2.2	2.45
Output _ VSWR (1525~1559 MHz)	-	-	1.9	2.3
Attenuation (Reference level from 0 dB)				
10 ~1000 MHz	dB	40	48	-
1000 ~1480 MHz	dB	30	32	-
1480 ~1490 MHz	dB	20	30	-
1575 MHz	dB	2	4.5	-
1600 ~1650 MHz	dB	20	30	-
1650 ~1785 MHz	dB	35	39	-
1785 ~2200 MHz	dB	28	34	-
2200 ~2500 MHz	dB	25	30	-
2500 ~4000 MHz	dB	16	19	-
Temperature coefficient of frequency	ppm/k	-	-36	-

C. OUTLINE DRAWING:



Connection	Terminals
Input	2
Balanced Output	4, 6
Ground	1, 3, 5

Dimensions	Millimeters			Inches		
				Min	Nom	Max
A	2.87	3.0	3.13			
B	2.87	3.0	3.13			
C	0.90	1.0	1.10			
D		0.75				
E		0.75				
F		1.50				
G		0.60				

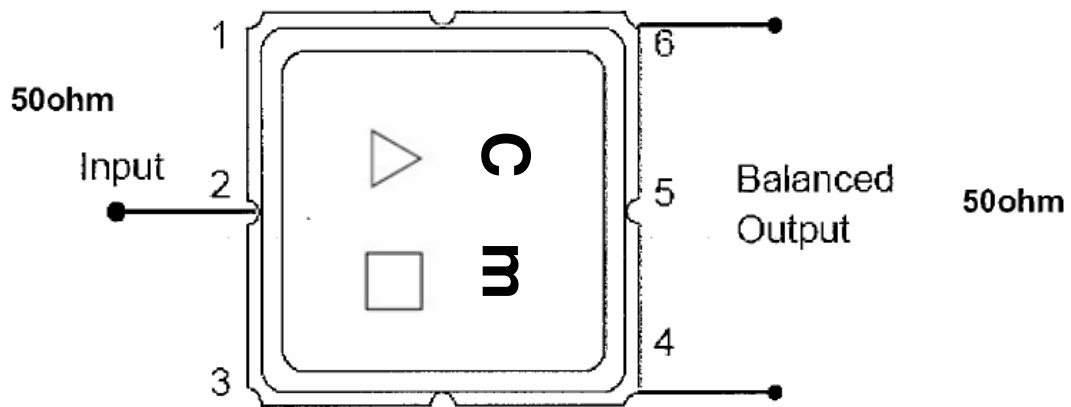
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□ : Date Code

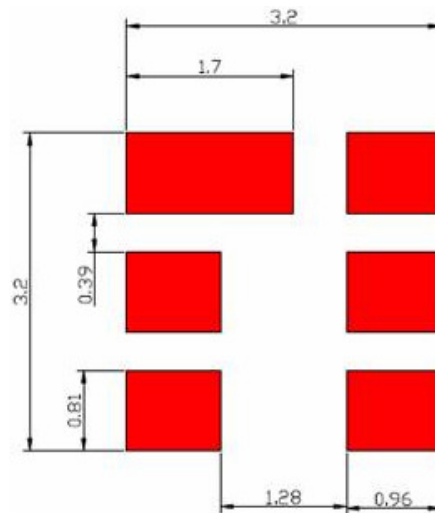
Date Code Table:

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

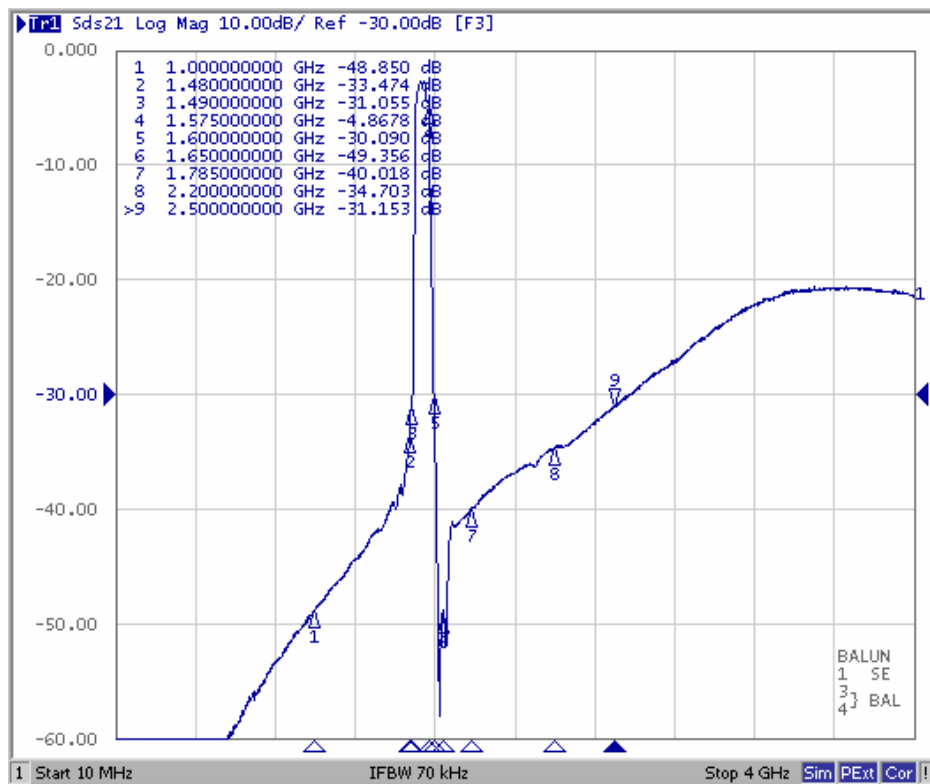
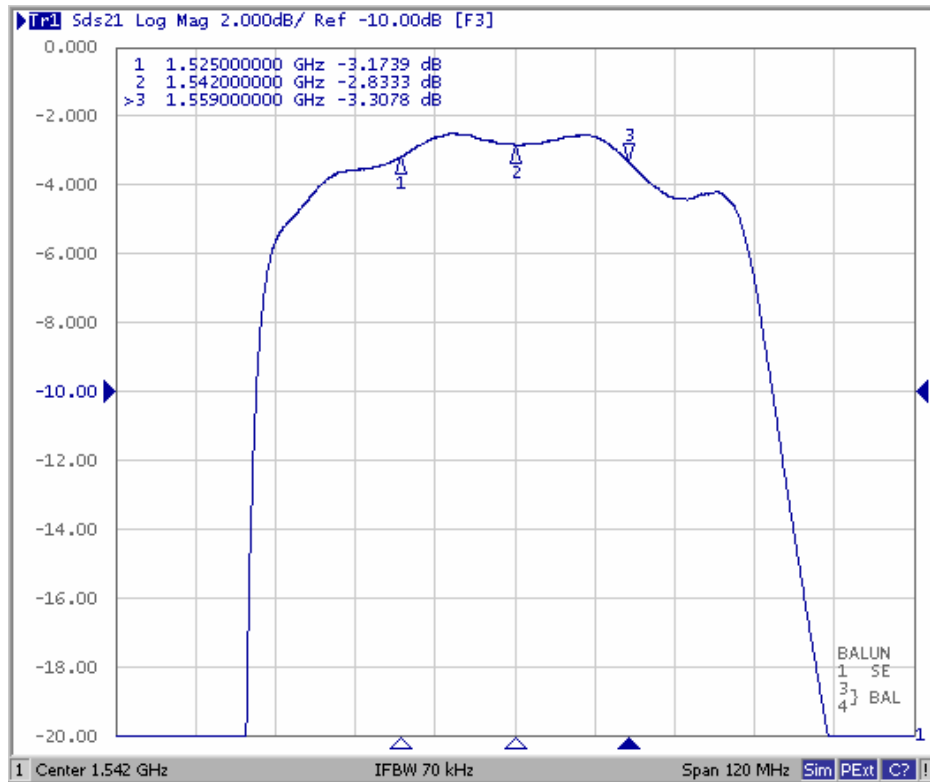
D. MEASUREMENT CIRCUIT:



E. PCB Footprint:

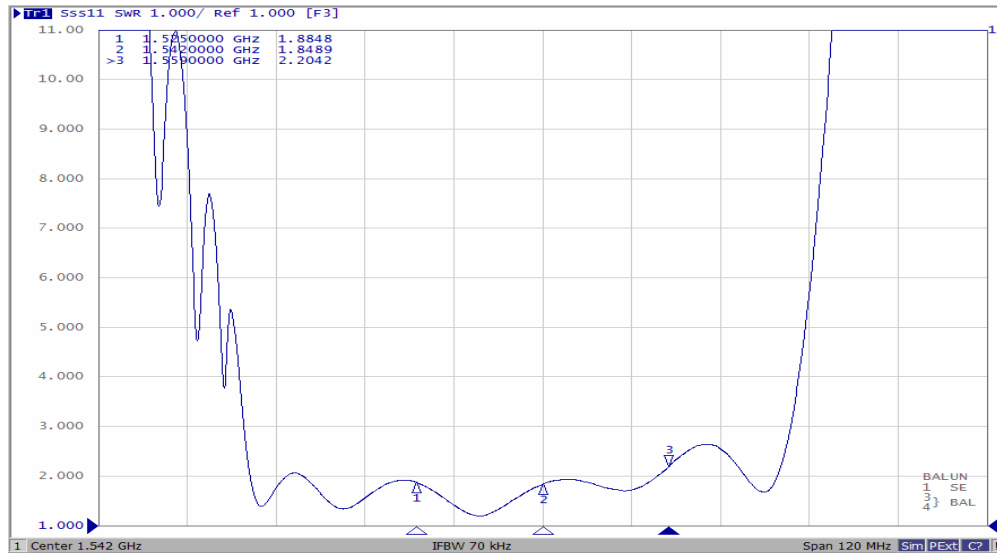


F. Frequency Characteristics:

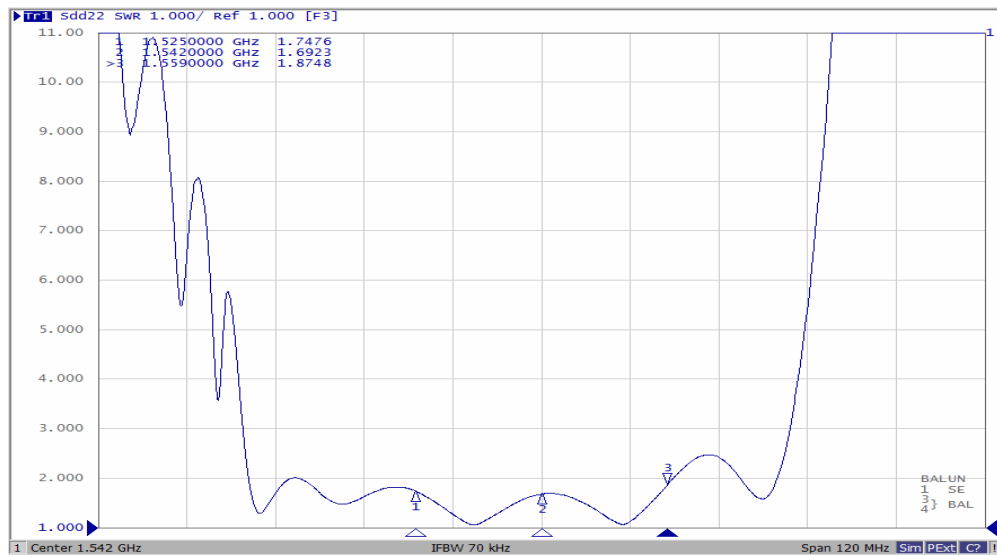


Reflection Functions:

S11



S22



1. REEL DIMENSION

Technical drawing of a circular structural member. The main view shows a large circle with a central hole. A dashed circle indicates the hole's location. A line points from the text "See DETAIL 'A'" to the central hole. To the right, a vertical dimension line shows the hole's diameter as $\phi 100$ REF. and the member's outer diameter as $\phi 330$ REF. Below the main view, a detailed view of the hole is shown, labeled "A". It features a central hole with a diameter of $\phi 20 \pm 0.5$ and a surrounding ring with a thickness of 20 ± 0.5 . The ring is divided into four segments, each with a thickness of $\phi 30 \pm 0.2$.

Technical drawing of a multi-hole punch die. The drawing includes a side view and a top view. The side view shows a cylindrical body with a central hole and a series of smaller holes. The top view shows a rectangular plate with a central hole and a series of smaller holes. Dimensions are given in millimeters (mm) and include tolerances. Key dimensions include: overall length 12.00 ± 0.3, overall width 5.50 ± 0.05, central hole diameter 1.75 ± 0.1, hole spacing 4.00 ± 0.1, hole diameter 1.60 ± 0.1, and hole depth 1.40 ± 0.1. The drawing also includes labels for the die components: A (die body), B (die plate), C (die holder), and D (die holder).

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.

