



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: ttsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: SAW Filter 742.5 MHz SMD 3.0×3.0 mm (BW=31 MHz)

TST Parts No.:TA1915A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ David Chang 

Approved by:_____ Bob Chau 

Date:_____ 2015/10/06

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 742.5 MHz

MODEL NO.:TA1915A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

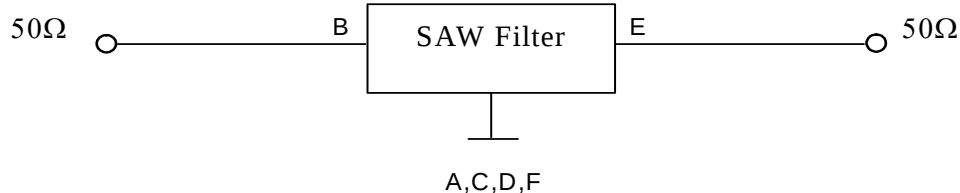
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

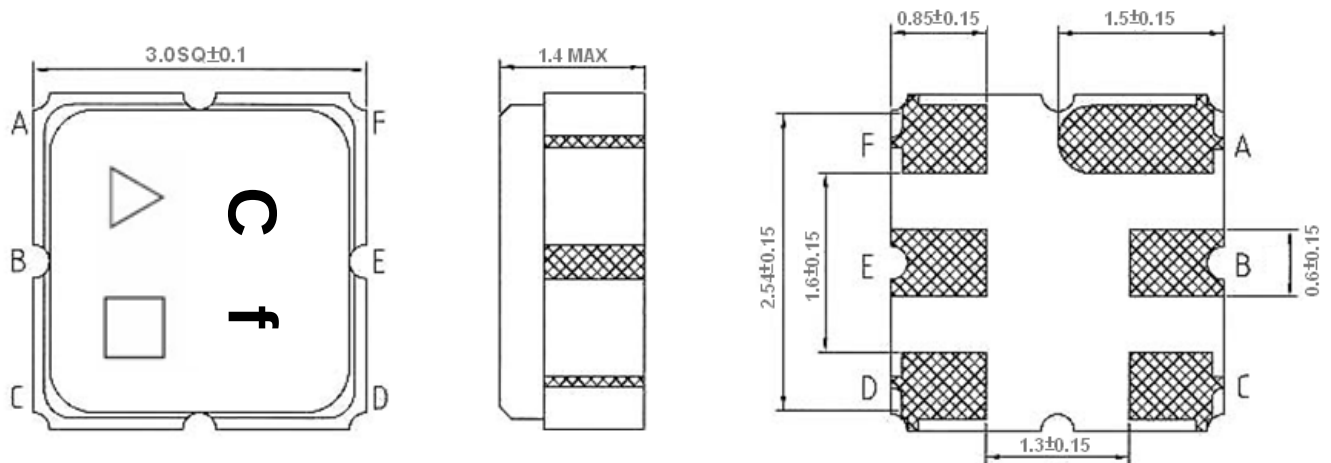
Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	742.5	-
Insertion loss (727~758 MHz) IL	dB	-	2.4	4
Bandwidth @ -2.5dB	MHz	31	38	-
Amplitude Ripple (less than 2.0 dB in any 11MHz portion of the specified band)	dB	-	0.8	2.5
Attenuation (Reference level from 0 dB)				
300 ~ 650 MHz	dB	28	56	-
698 ~ 716 MHz	dB	10	30	-
776 ~ 787 MHz	dB	10	30	-
840 ~ 1050 MHz	dB	28	52	-
Temperature Coefficient of Frequency	Ppm/°C	-	-36	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



B: Input

E: Output

A, C, D, F: Ground

Unit: mm

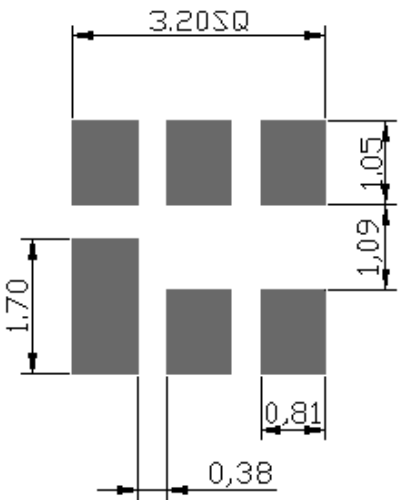
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□ : Date Code

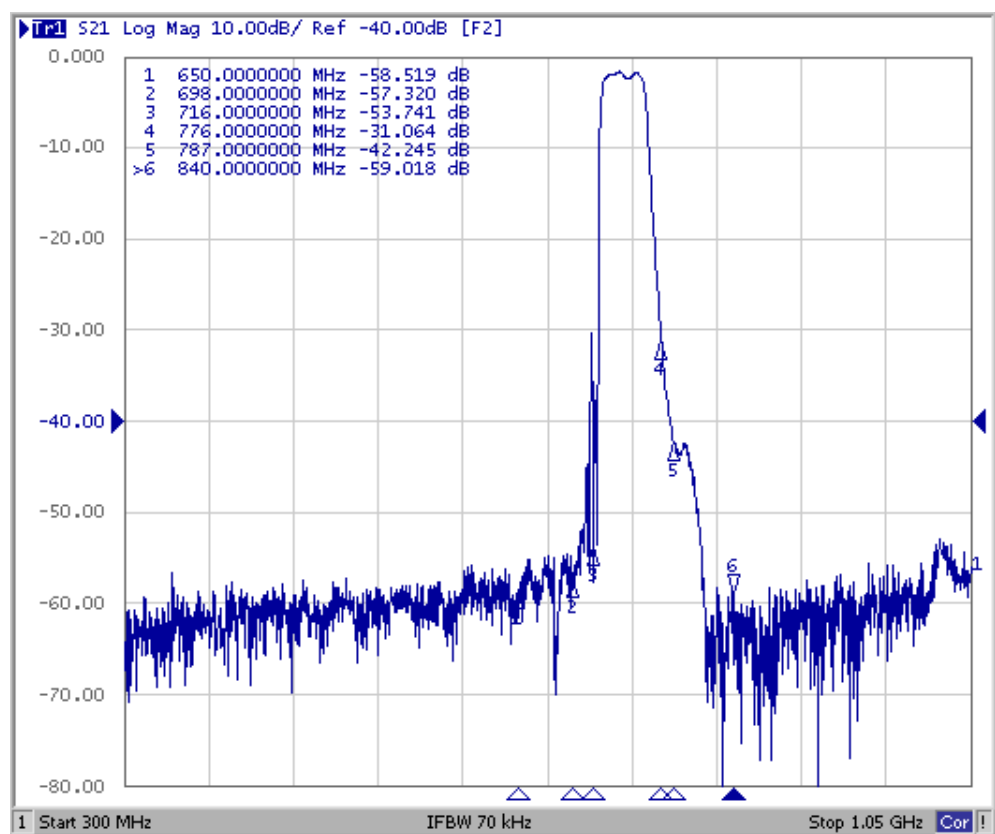
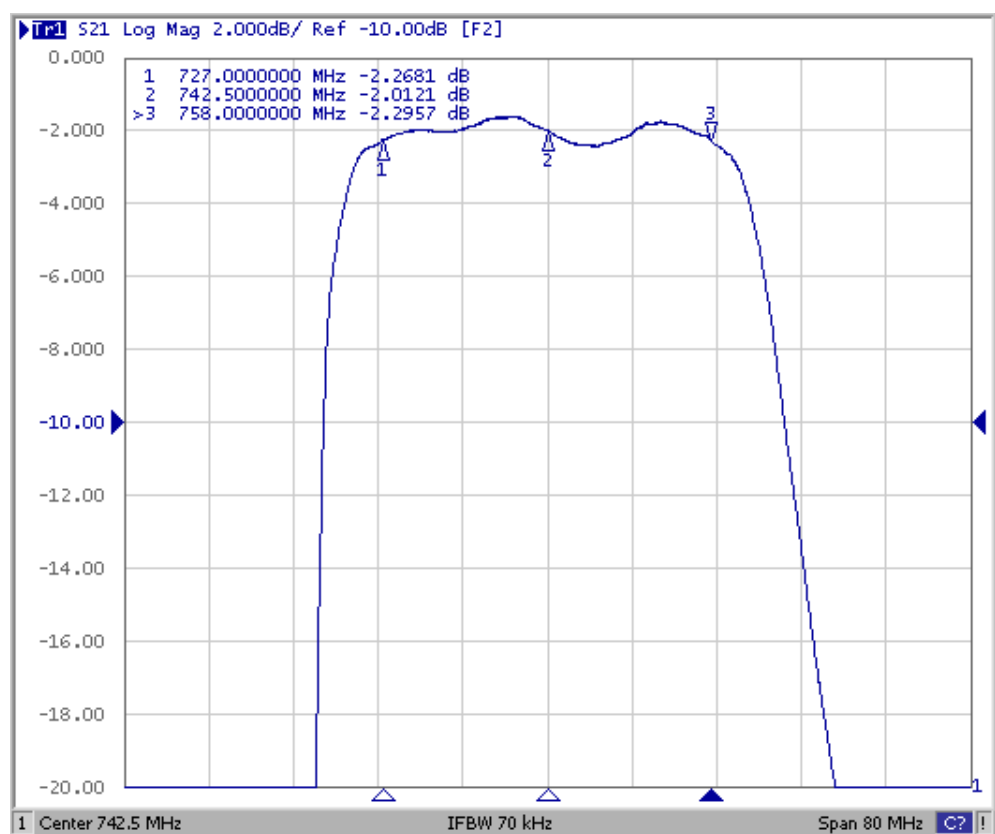
Date Code Table:

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

E. PCB Footprint:



F. Frequency Characteristics:



1. REEL DIMENSION

See DETAIL 'A'

Technical drawing of a circular component. The main view shows a large circle with a central hole. The hole is defined by a dashed circle. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right of the main view, there is a vertical dimension line with two horizontal reference lines. The top reference line is labeled "Ø100 REF." and the bottom reference line is labeled "Ø330 REF.". Below these, there is a dimension of "12 TYP.". At the bottom of the drawing, there is a detailed view of the central hole, labeled "A". This detail shows a circular hole with a central pin. The hole has a diameter of "Ø13.01±0.1-A2". The pin has a diameter of "Ø20.2±0.1". The distance from the center of the hole to the center of the pin is "20±0.5".

Technical drawing of a multi-hole punch die. The drawing includes a side view on the left and a top view on the right. The side view shows a cross-section of the die with a width of 0.25 and a height of $B_0 \pm 0.1$. The top view shows a rectangular die with a length of 12.00 ± 0.3 and a width of 4.00 ± 0.1 . The die has a series of holes with a diameter of $\phi 1.6 \pm 0.1$ DIA. The holes are spaced at 2.00 ± 0.05 and 4.00 ± 0.1 . The die is labeled with 'A' and 'Direction of Feed'.

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.

