



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 Specification Approval Sheet

Product Name: SAW Filter 1228MHz 20 MHz BW SMD 3.0×3.0mm

TST Parts No.:TA0490A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Anne Chen 

Approved by:_____ Bob Chau 

Date:_____ 08. 05, 2014

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 1228 MHz

MODEL NO.: TA0490A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 5 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)

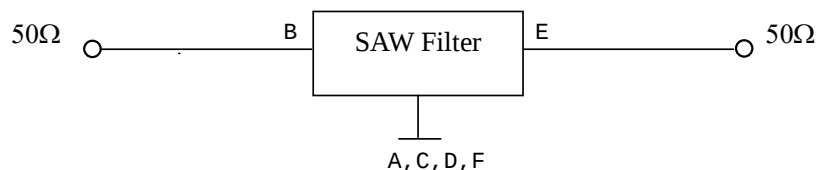
B. CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center Frequency	MHz	-	1228	-
Insertion Loss 1218 ~ 1238 MHz	dB	-	2.7	3.9
Ripple 1218 ~ 1238 MHz	dB	-	0.4	1.8
Absolute Attenuation				
0 ~ 1088 MHz	dB	38	53	-
1088 ~ 1178 MHz	dB	32	46	-
1178 ~ 1188 MHz	dB	20	45	-
1270 ~ 1290 MHz	dB	15	35	-
1290 ~ 1378 MHz	dB	30	49	-
1378 ~ 1480 MHz	dB	35	55	-
1480 ~ 2500 MHz	dB	27	34	-
2500 ~ 3000 MHz	dB	18	28	-
Source Impedance	Ω	-	50	-
Load Impedance	Ω	-	50	-

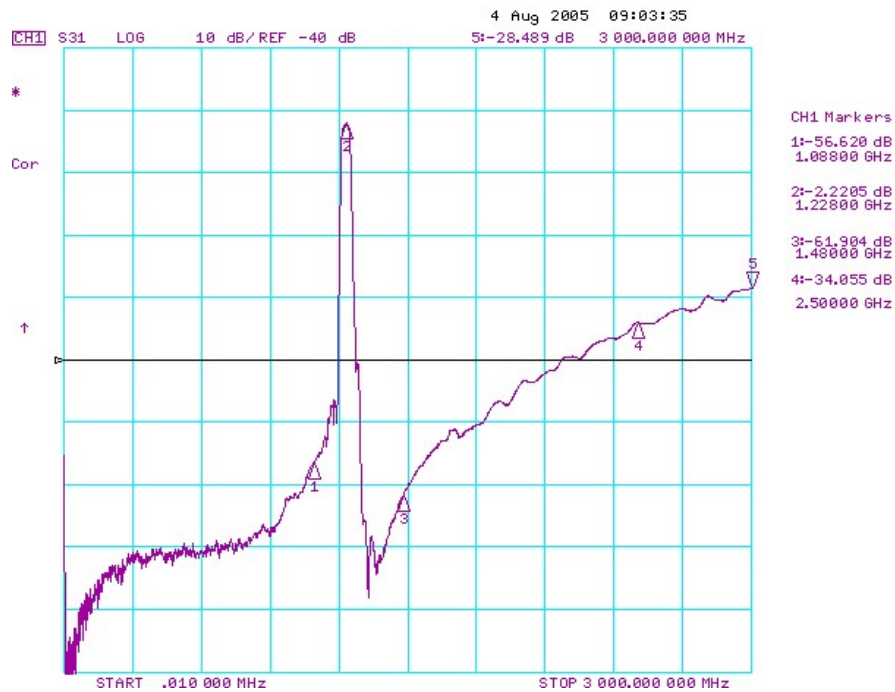
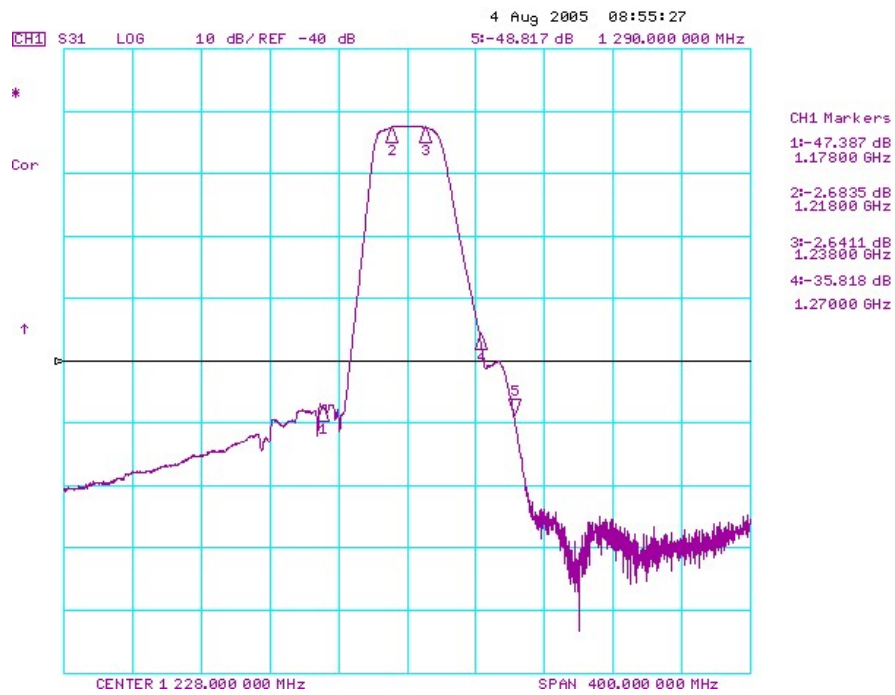
Note1. No matching network required for operation at 50Ω

C. MEASUREMENT CIRCUIT:

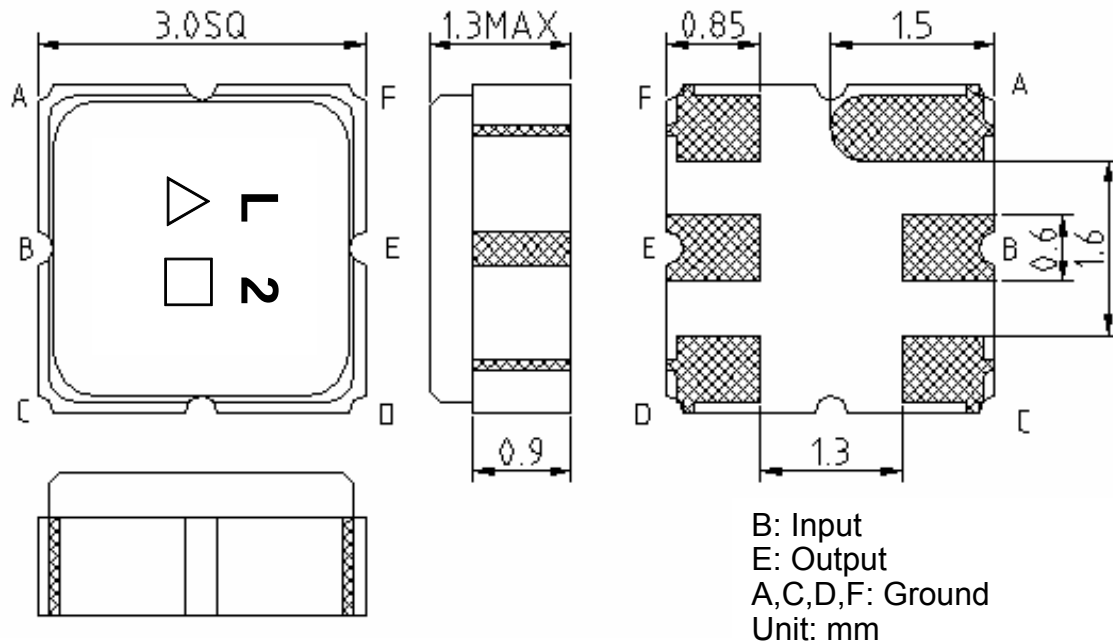
HP Network analyzer



D. Transfer Function :



E.OUTLINE DRAWING:



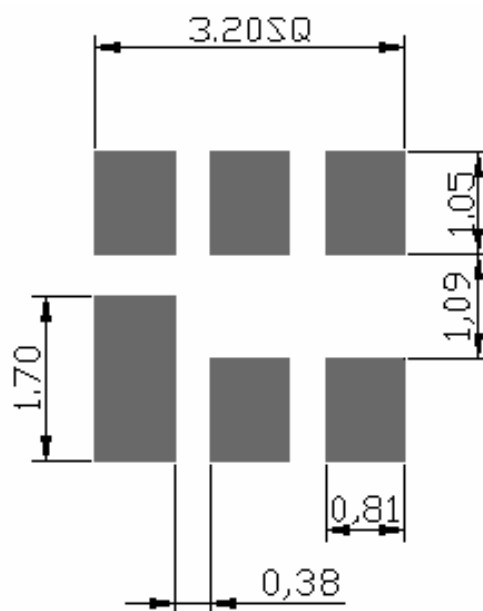
△ : Year Code (2009->9, 2010->0,..., 2018->8)

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

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

F.PCB FOOTPRINT:



1. REEL DIMENSION

See DETAIL "A"

Technical drawing showing a circular component with a central hole. The drawing includes a large outer circle and a smaller dashed inner circle. A leader line points from the text "See DETAIL 'A'" to the central hole. To the right, a vertical dimension line indicates a distance of 120. Below the main drawing, a detail view (DETAIL "A") shows a cross-section of the central hole, which is a circle with a diameter of $\phi 13.0$ and a thickness of 2.0. The detail view also shows a smaller circle with a diameter of $\phi 20.2$ and a dashed outer circle with a diameter of $\phi 100$.

0.3

2.0

4.0

$\phi 1.5$

A

1.75

R0.3 (MAX.)

3.35

5.5

12.0

3.35

8.0

B

B

$\phi 1.5$

R0.5 (TYP.)

A

SECTION A-A

SECTION B-B

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 245~260°C peak (min. 10sec).
4. Time : 2 times.

