



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 915 MHz SMD 3.0x3.0 mm (BW=26 MHz)

TST Parts No.:TA1042B

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by : _____

Date:_____

Checked by:_____ David Chang 

Approved by:_____ Bob Chau 

Date:_____ 2015/08/10

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 915 MHz

MODEL NO.: TA1042B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 27dB_m Continuous Wave (1500 hours)
2. DC voltage: 5 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)

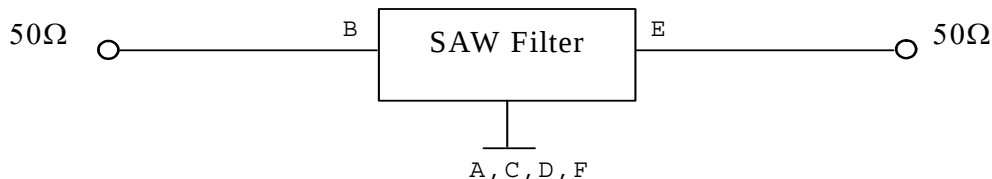
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	915	-
Insertion loss (902 ~ 928 MHz) IL	dB	-	2.2	3.5
Amplitude ripple (902 ~ 928 MHz)	dB	-	0.6	2.0
VSWR (902 ~ 928 MHz)	-	-	1.6	2.3
Attenuation (Reference level from 0 dB)				
D.C. ~ 800 MHz	dB	50	63	-
800 ~ 880 MHz	dB	40	48	-
960 ~ 1080 MHz	dB	32	39	-
1080 ~ 1500 MHz	dB	45	65	-
1500 ~ 3000 MHz	dB	22	28	-
Source impedance Zs	Ω	-	50	-
Load impedance ZL	Ω	-	50	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

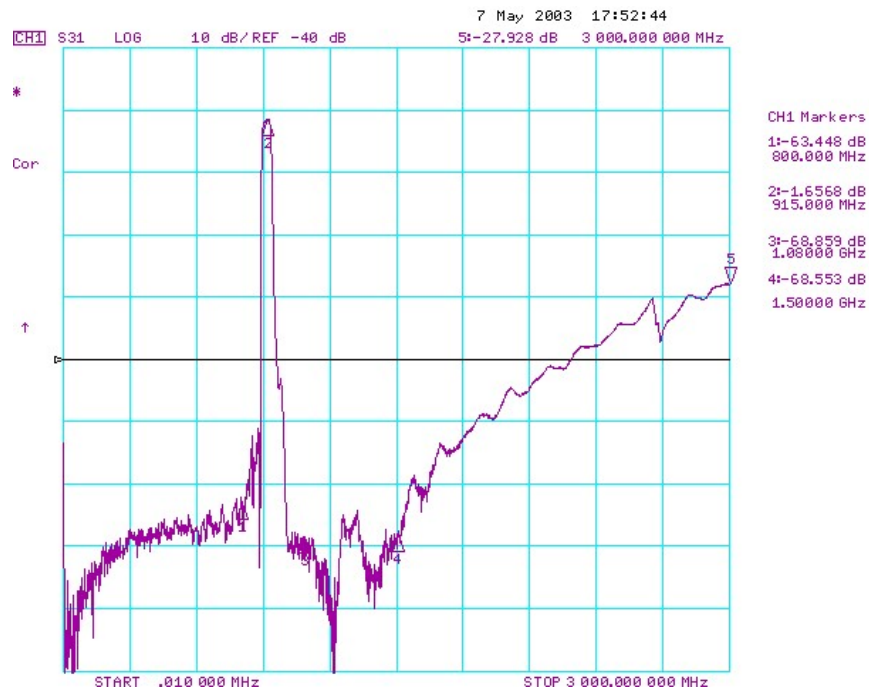
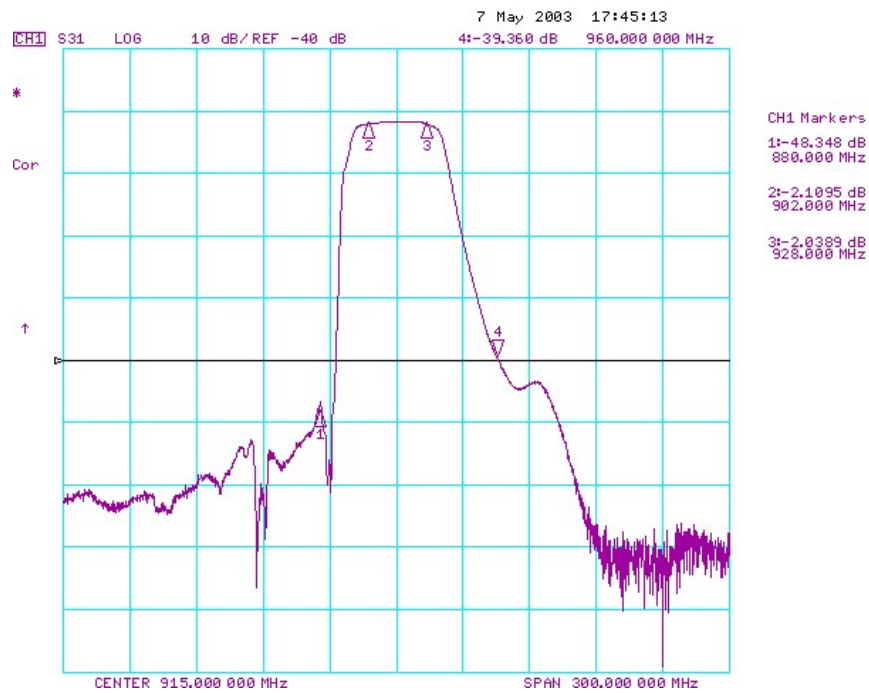
Note. No matching network required for operation at 50 Ω

MEASUREMENT CIRCUIT:

HP Network analyzer

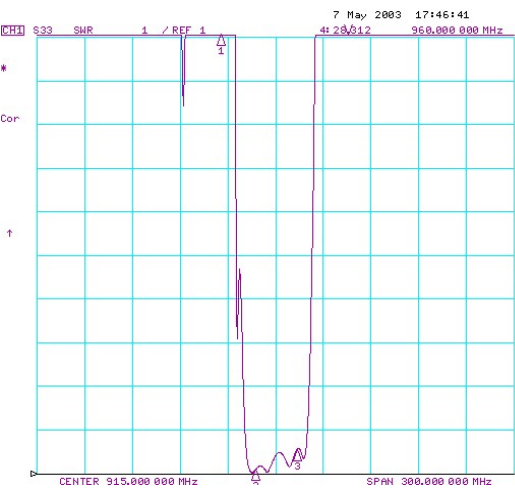
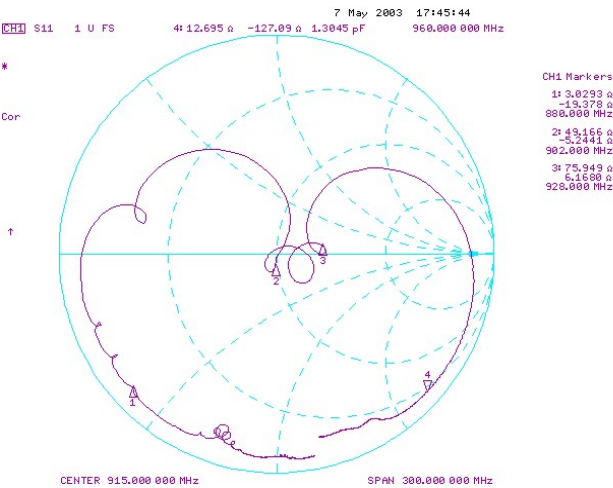
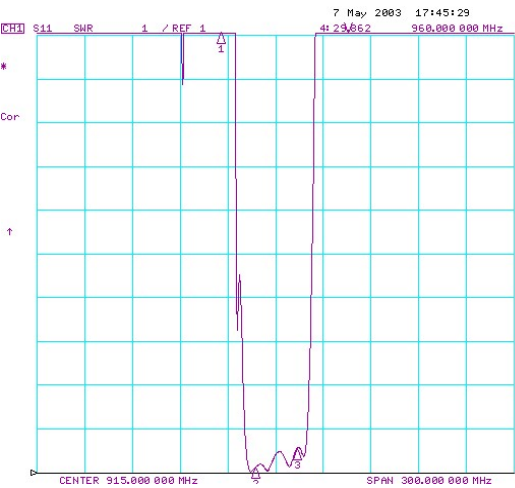


C. Frequency Characteristics:

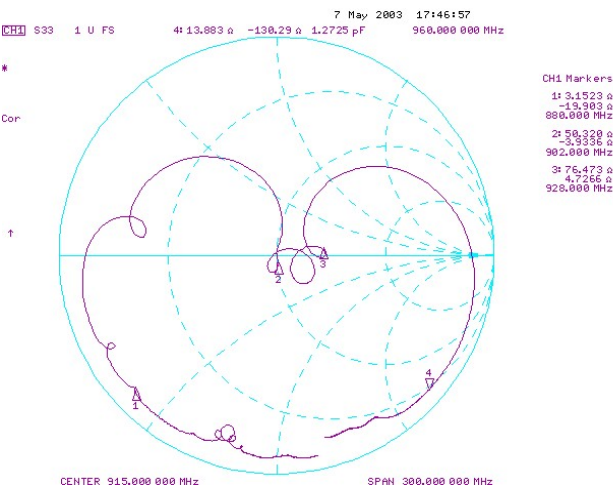


D. Reflections Functions:

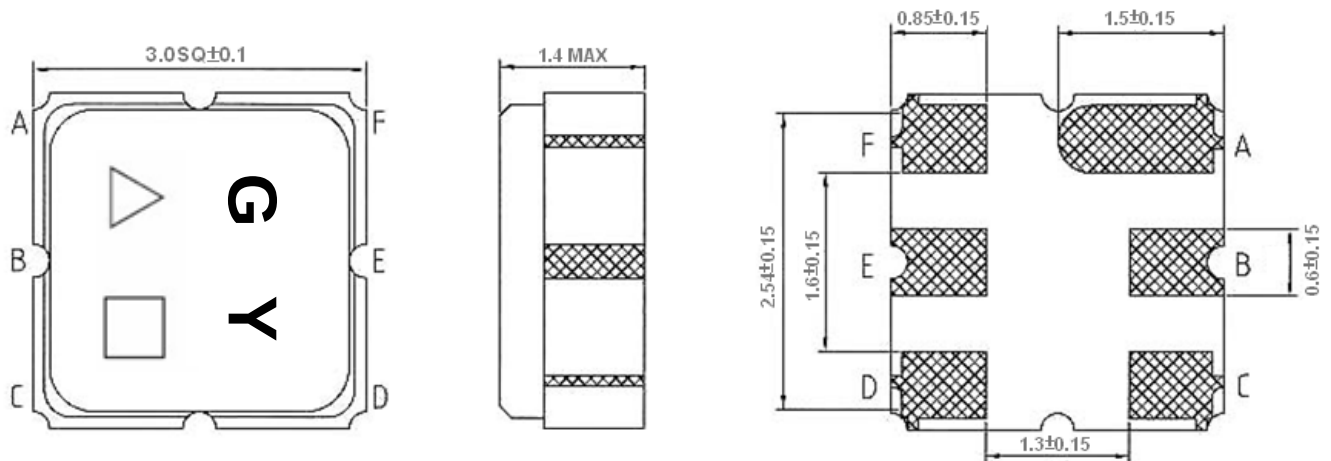
S11



S22



D. OUTLINE DRAWING:



B: Input

E: Output

A, C, D, F: Ground

Unit: mm

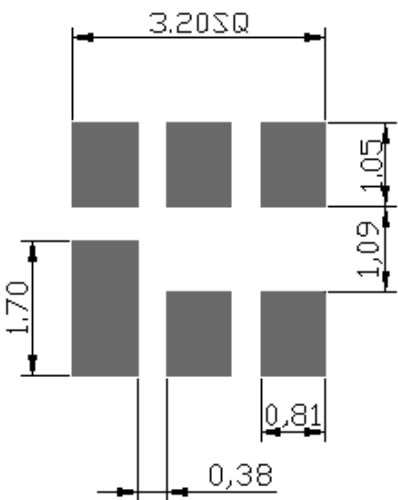
△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->0)

□ : 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

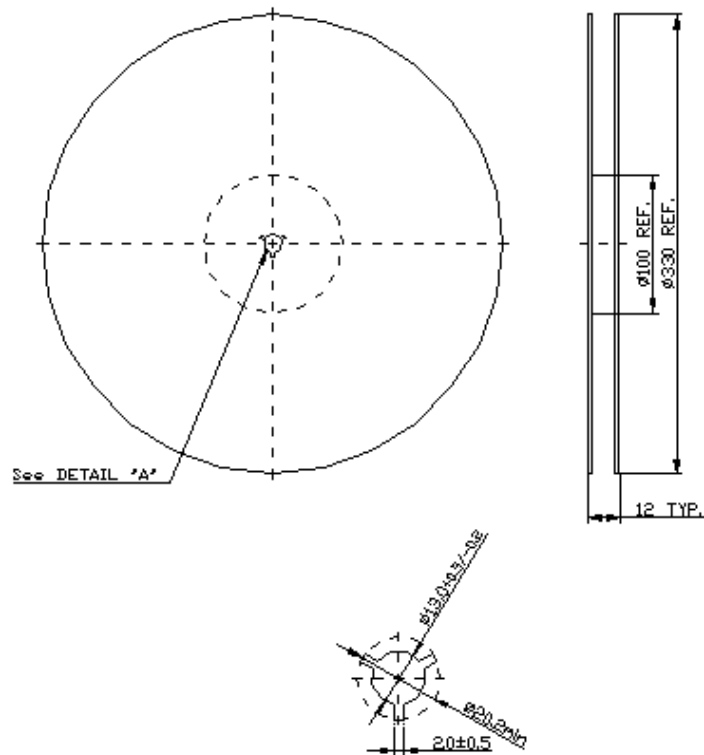
E. PCB Footprint:



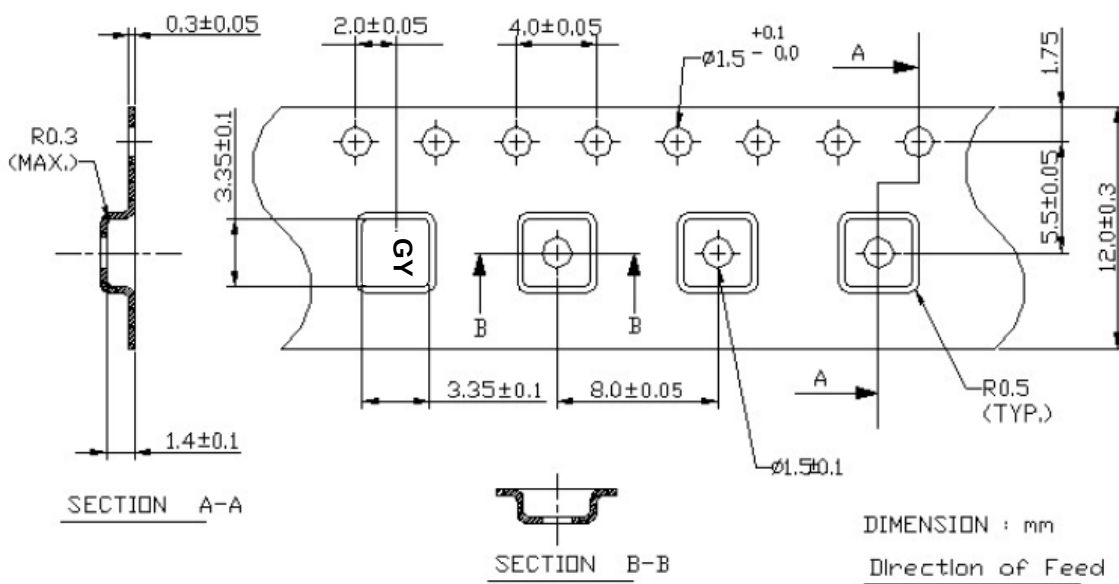
G. PACKING:

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.

