



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

Product Specification Approval Sheet


Product Name: SAW Filter 1090MHz SMD 3.8X3.8 mm (BW=30MHz)

TST Parts No.: TA1090EC

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Bob Chau 

Date: _____ 02, 17, 2016

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 change



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

http://www.taisaw.com

E-mail : tstsales@mail1.taisaw.com

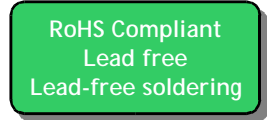
SAW Filter 1090 MHz

MODEL NO.: TA1090EC

REV. NO.:3

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C



Electrostatic Sensitive Device (ESD)

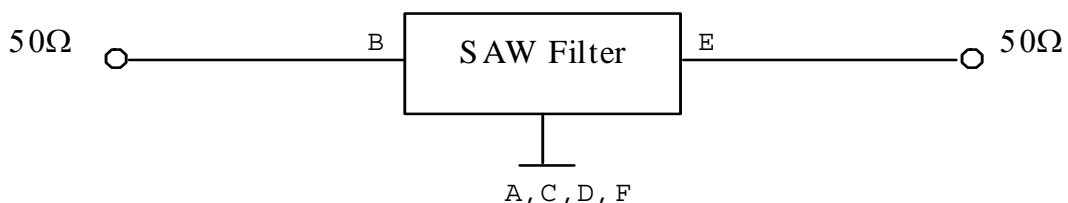
B. ELECTRICAL CHARACTERISTICS:

Characteristics	(at 25°C)	Min.	Typ.	Max.
Center frequency	F _c (dB)	-	1090	-
Insertion loss within 1075 ~1105 MHz	IL (dB)	-	2.3	3.0
Amplitude ripple (p-p) within 1085 ~ 1095 MHz	(dB)	-	0.25	0.5
Attenuation (Reference level from 0 dB)				
DC ~ 970 MHz	(dB)	25.0	30	-
1150 ~ 1300 MHz	(dB)	25.0	33.5	-
VSWR within 1075 ~1105 MHz		-	1.8	2.1
Source impedance	Z _s (Ω)	-	50	-
Load impedance	Z _L (Ω)	-	50	-

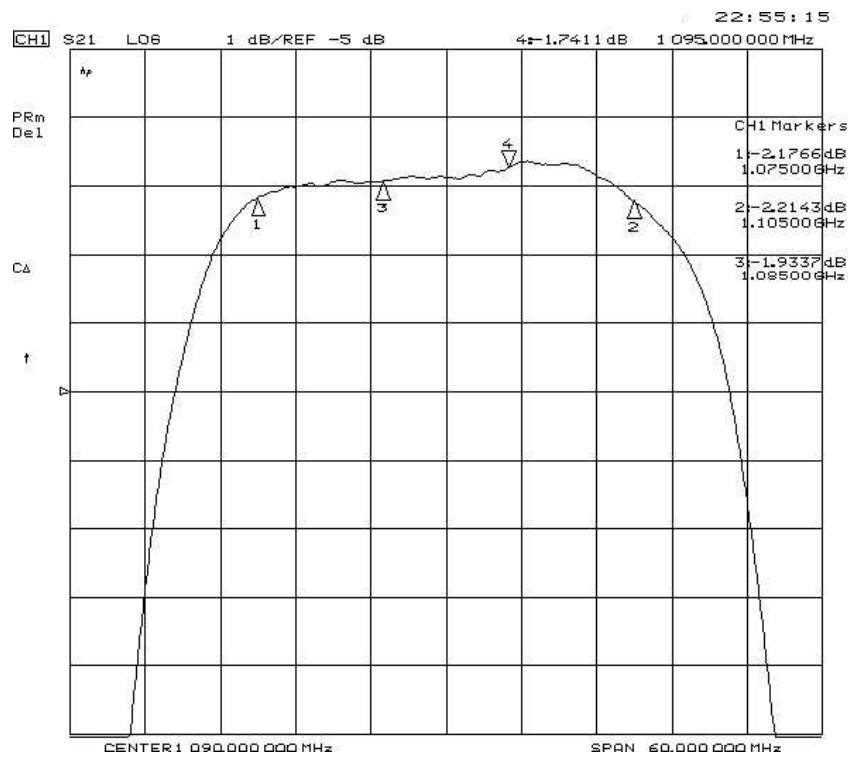
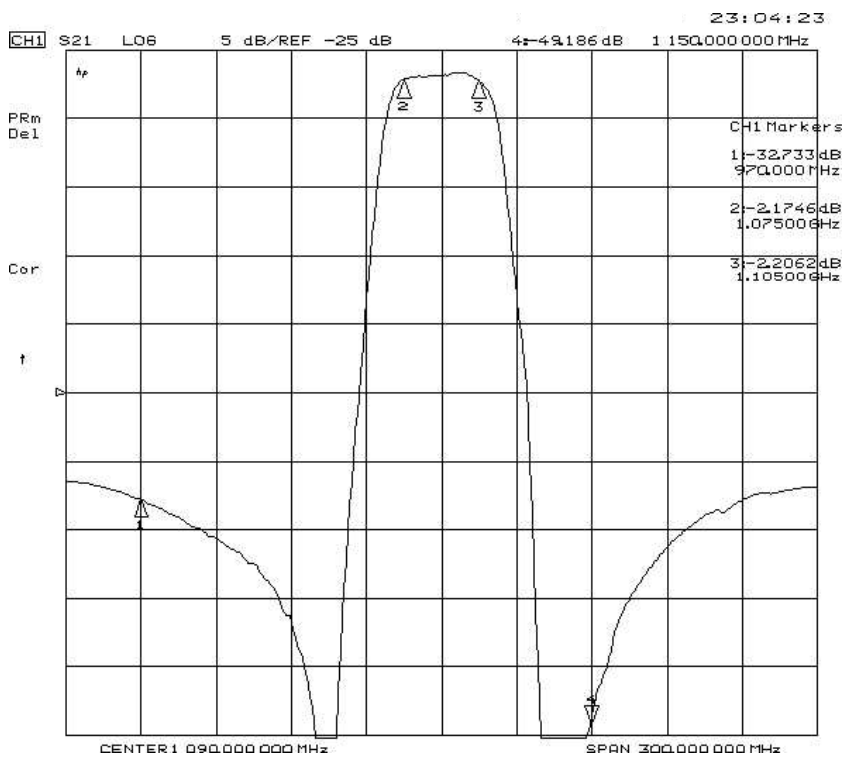
Note1. No matching network required for operation at 50 Ω

C. MEASUREMENT CIRCUIT:

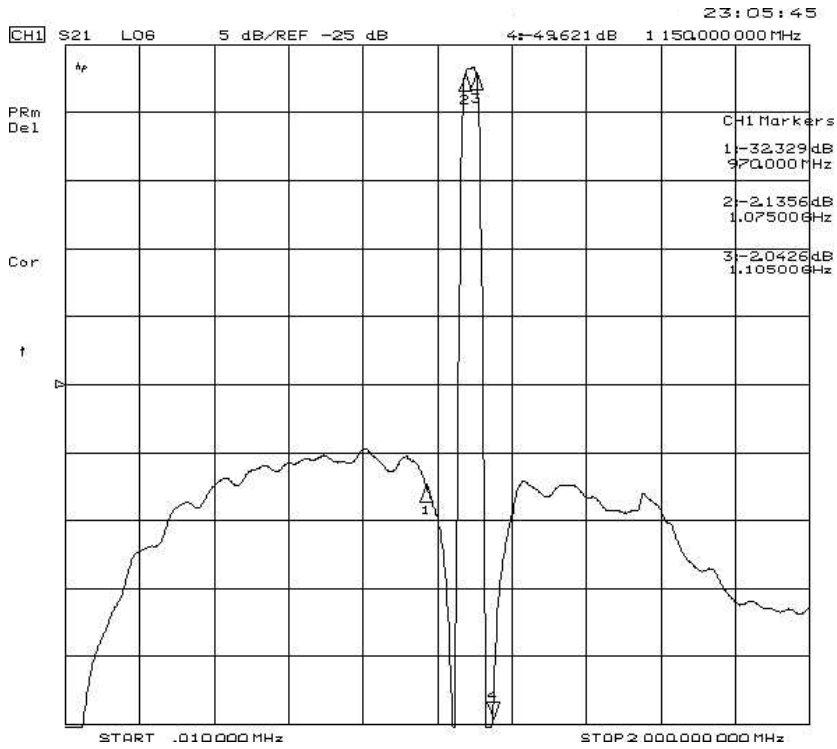
HP Network analyzer



D. Frequency Characteristics :



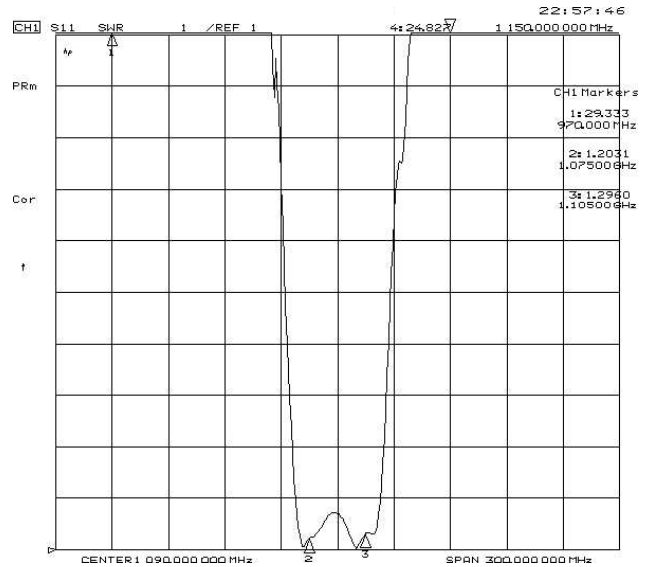
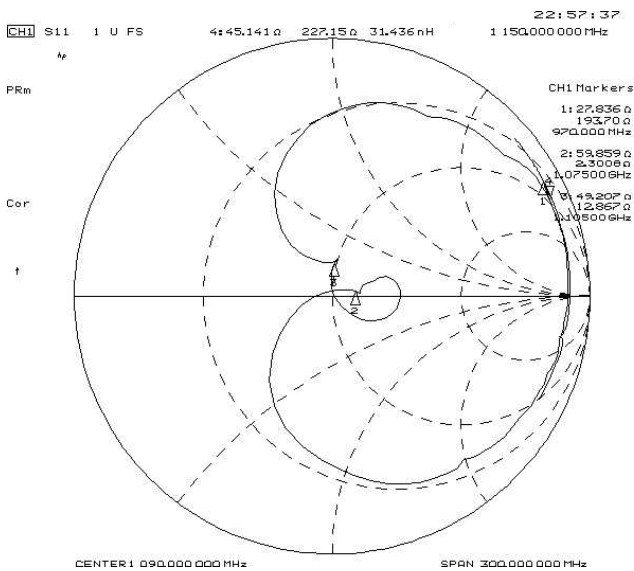
(wideband)



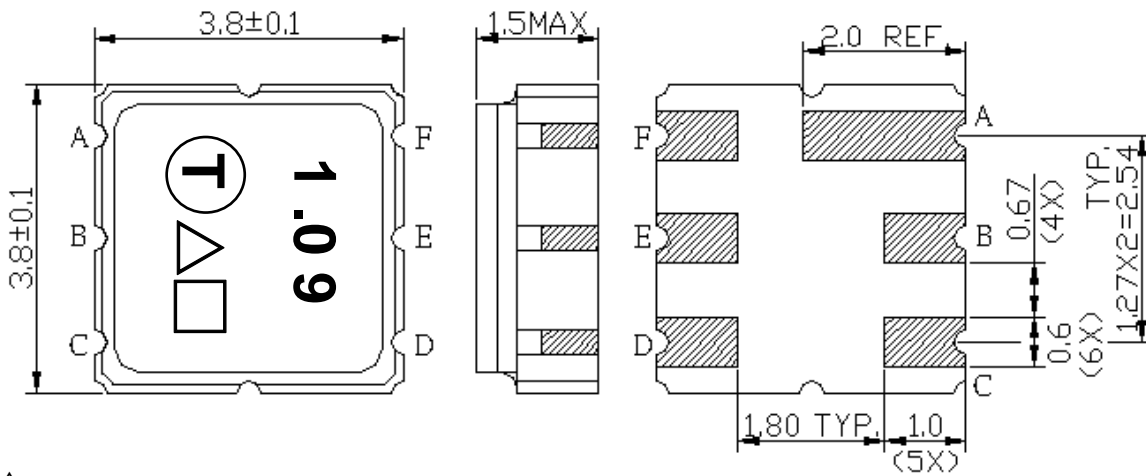
Reflections Functions :

Smith Chart

VSWR



E. OUTLINE DRAWING:



△ : Year Code

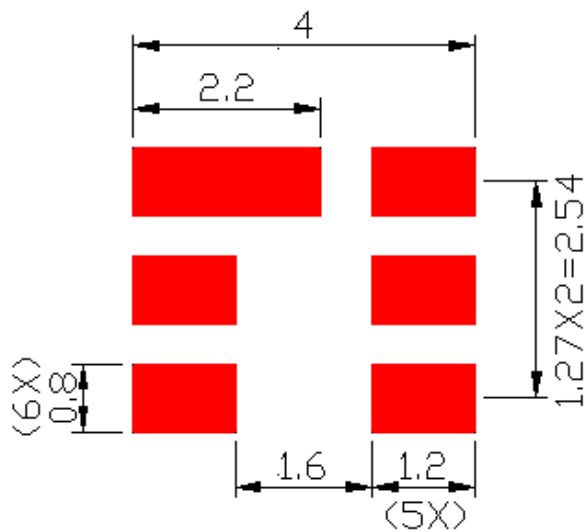
□ : Date Code (Follow the table from planner each year)

#B: Input
 #E: Output
 #A,C,D,F : Ground
 #Unit : mm

△ Product Year Code

Year	2013 2017	2014 2018	2015 2019	2016 2020
Product Code	E	e	E	e

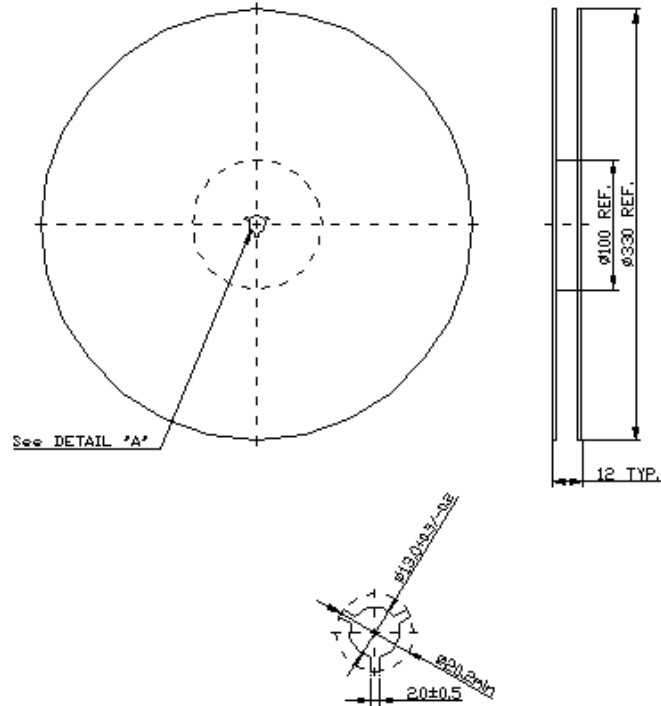
F. PCB Footprint:



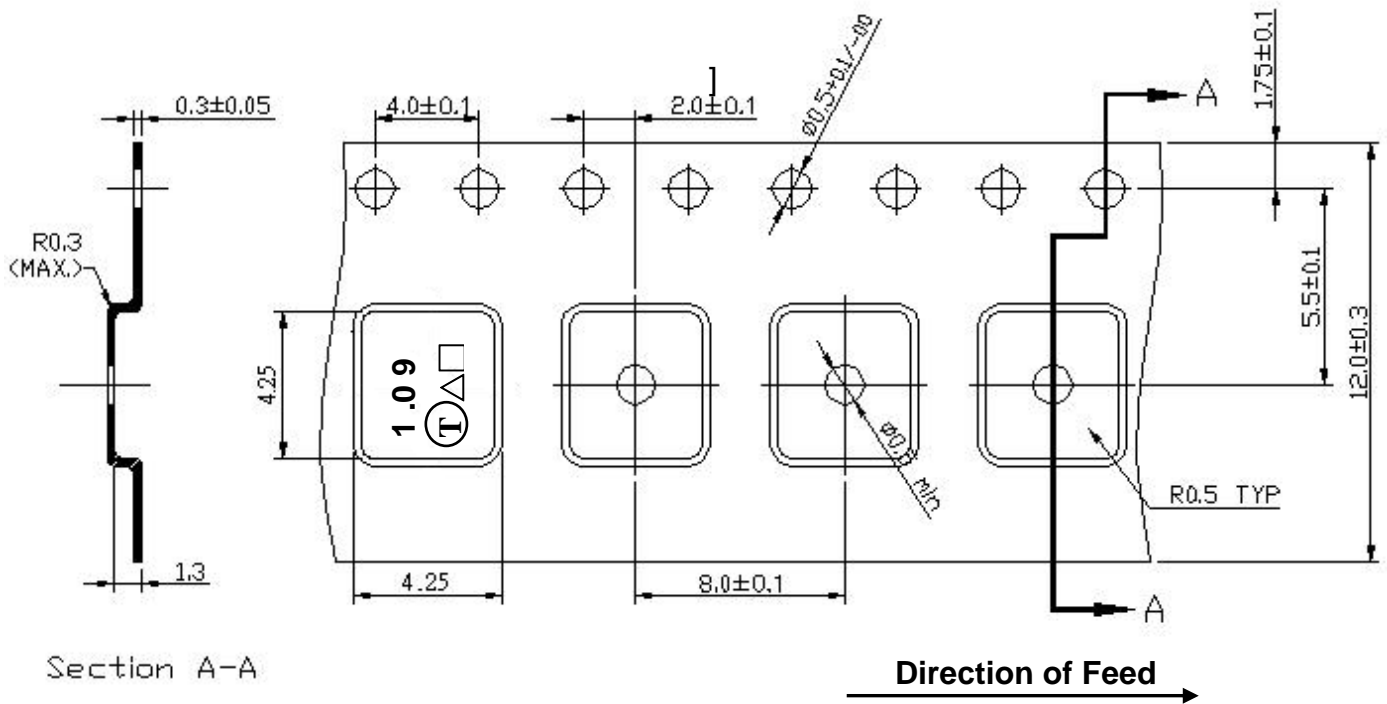
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



Section A-A

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.

