



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
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Product Specifications Approval Sheet

Product Name: Filter 388.5MHz 3MHz BW SMD 5×5 mm

TST Parts No.: TA1678A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu 

Approved by: _____ Bob Chau 

Date: _____ 2013, 11, 25

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 388.5MHz 3MHz BW SMD 5×5 mm

MODEL NO.: TA1678A

REV. No.: 1.0

A. MAXIMUM RATING:

1. Input Power Level: 0 dB_m
2. DC voltage: 10V
3. Operating Temperature: -55°C to +85°C
4. Storage Temperature: -55°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

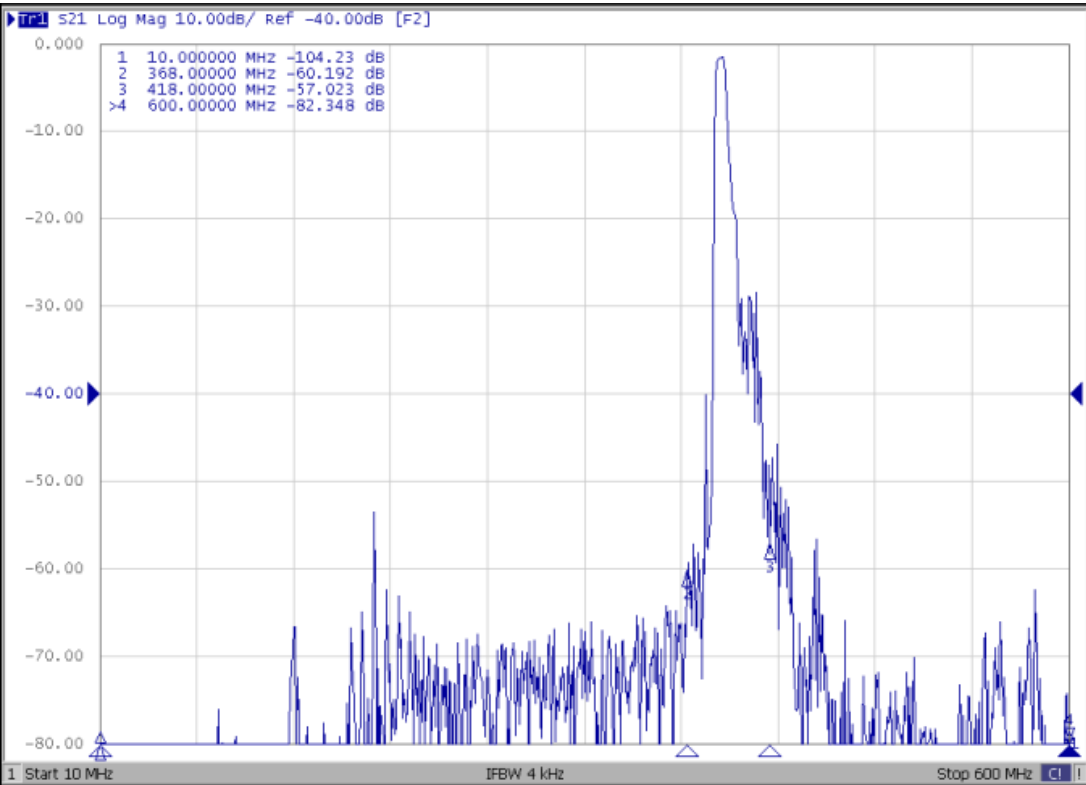
Terminating source impedance : Z_s = 50 Ω

Terminating load impedance : Z_L = 50 Ω

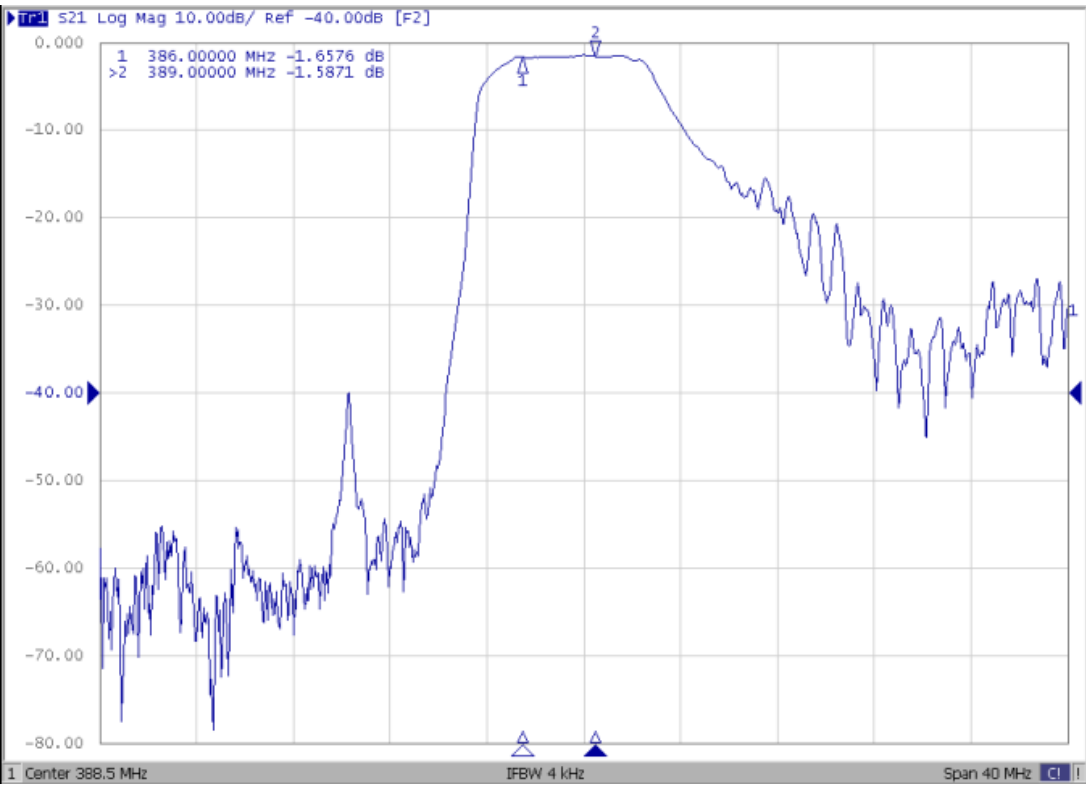
Item	Unit	Min.	Typical	Max.
Center frequency F _c	MHz	-	388.5	-
Insertion loss 386 ~ 389 MHz IL	dB	-	1.4	3.0
2 dB BW	MHz	-	6.5	
VSWR 386 ~ 389 MHz	MHz	-	2	2.2
Ripple 386 ~ 389 MHz	dB		0.3	1.6
Attenuation (Reference level from 0 dB)				
10 ~ 368 MHz	dB	40	56	-
418 ~ 600 MHz	dB	40	50	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	

C. FREQUENCY CHARACTERISTICS:

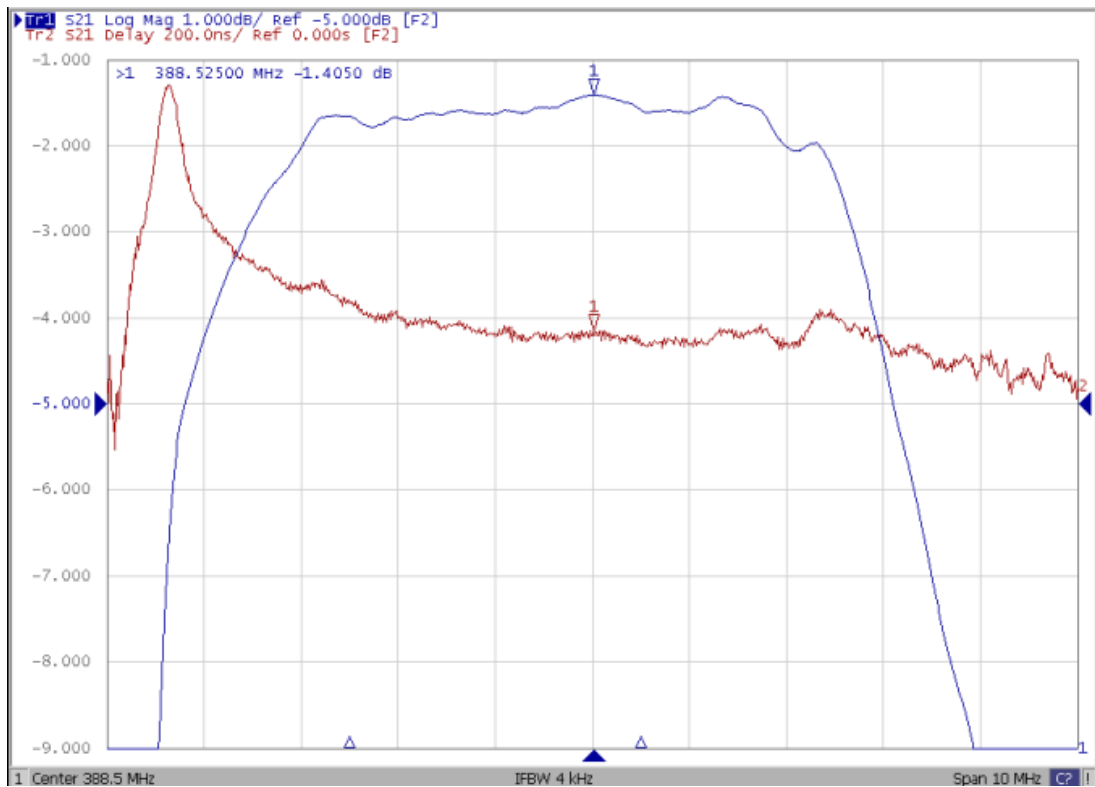
Wideband response: (span 600MHz)



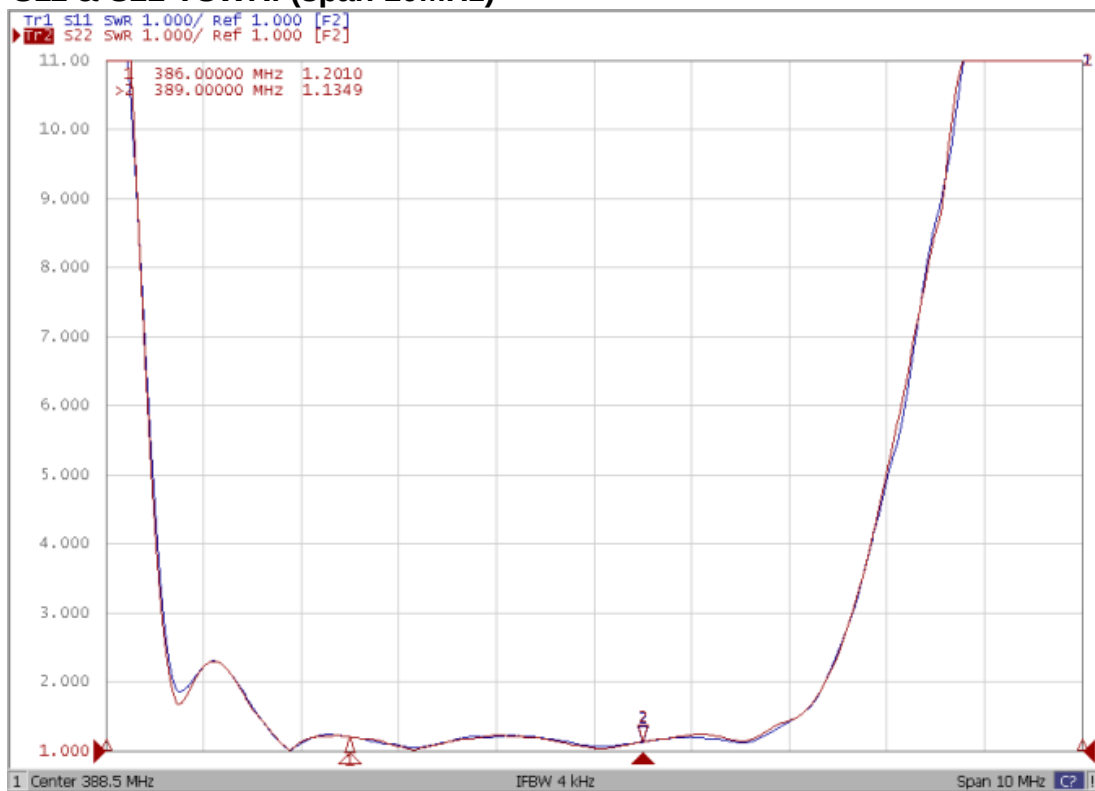
S21 response: (span 40MHz)



Passband response: (span 10MHz)

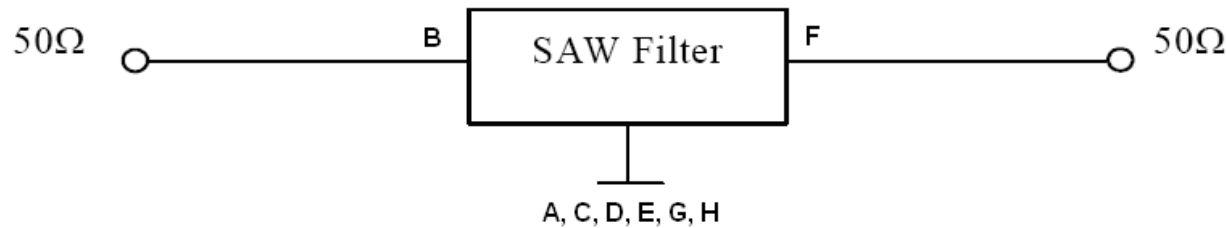


S11 & S22 VSWR: (span 10MHz)

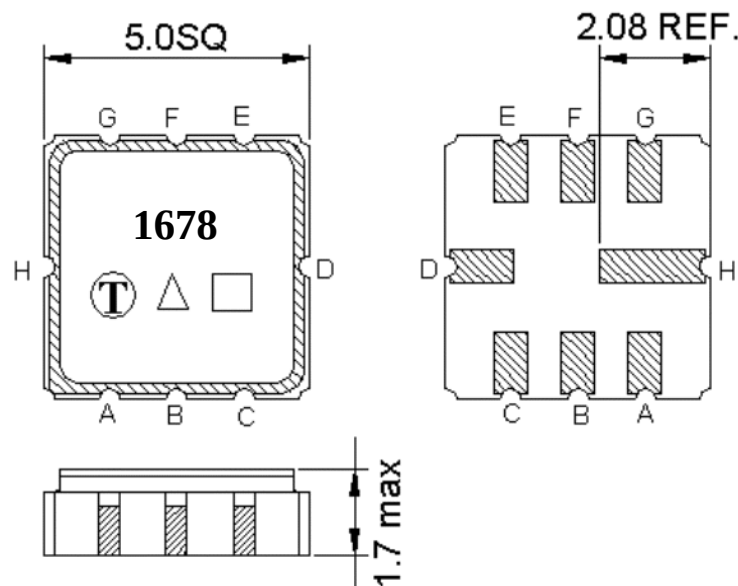


D. MEASUREMENT CIRCUIT:

HP Network analyzer



F.OUTLINE DRAWING:



Pin B: RF input

Pin F: RF output

Pin H,D: Case Ground

Pin A, C, G, E: Ground

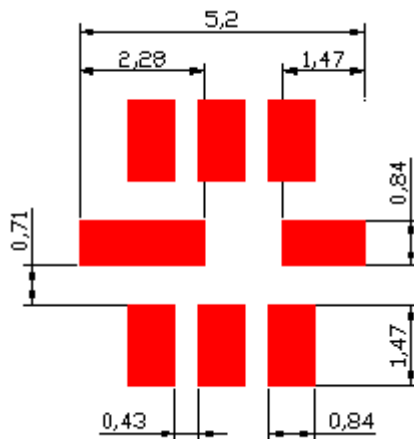
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	A	a	<u>A</u>	<u>a</u>

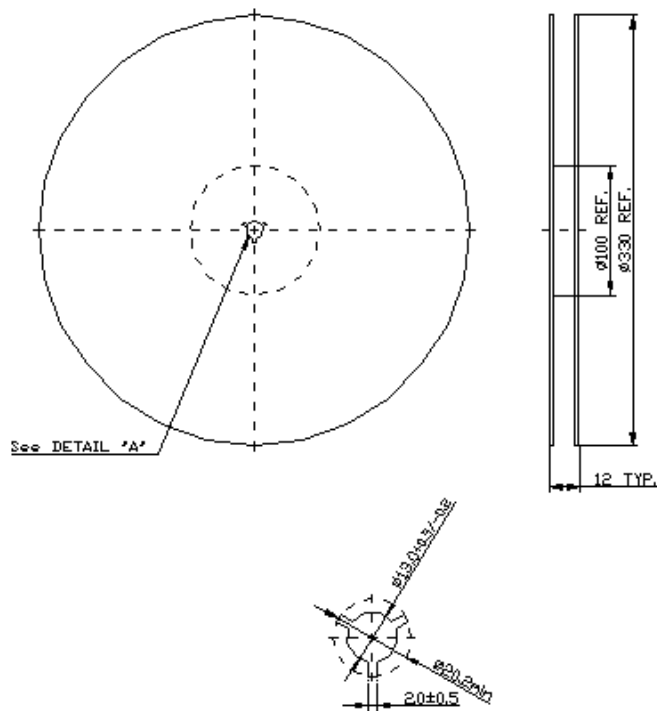
G. PCB FootPrint



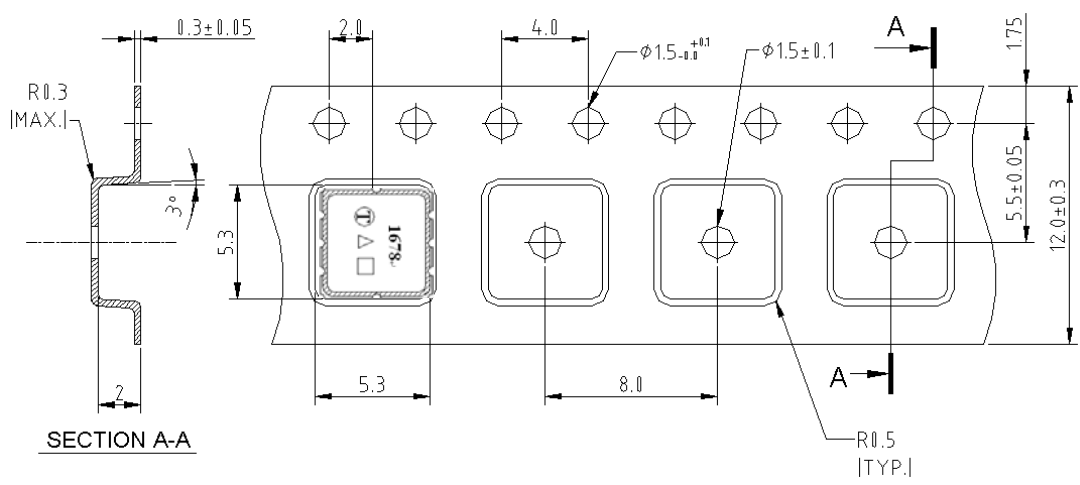
H. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

