



TAI-SAW TECHNOLOGY CO., LTD.

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

Product Name: SAW Filter 445MHz 20MHz BW SMD 3.8×3.8mm

TST Parts No.: TA1676A

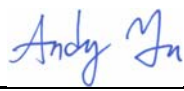
Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu 

Approval 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 change.



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SAW Filter 445 MHz 20MHz BW SMD 3.8×3.8mm

MODEL NO.:TA1676A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5V
3. Operating Temperature: -30°C to +70°C
4. Storage Temperature: -40°C to +85°C

RoHS Compliant
Lead free
Lead-free soldering

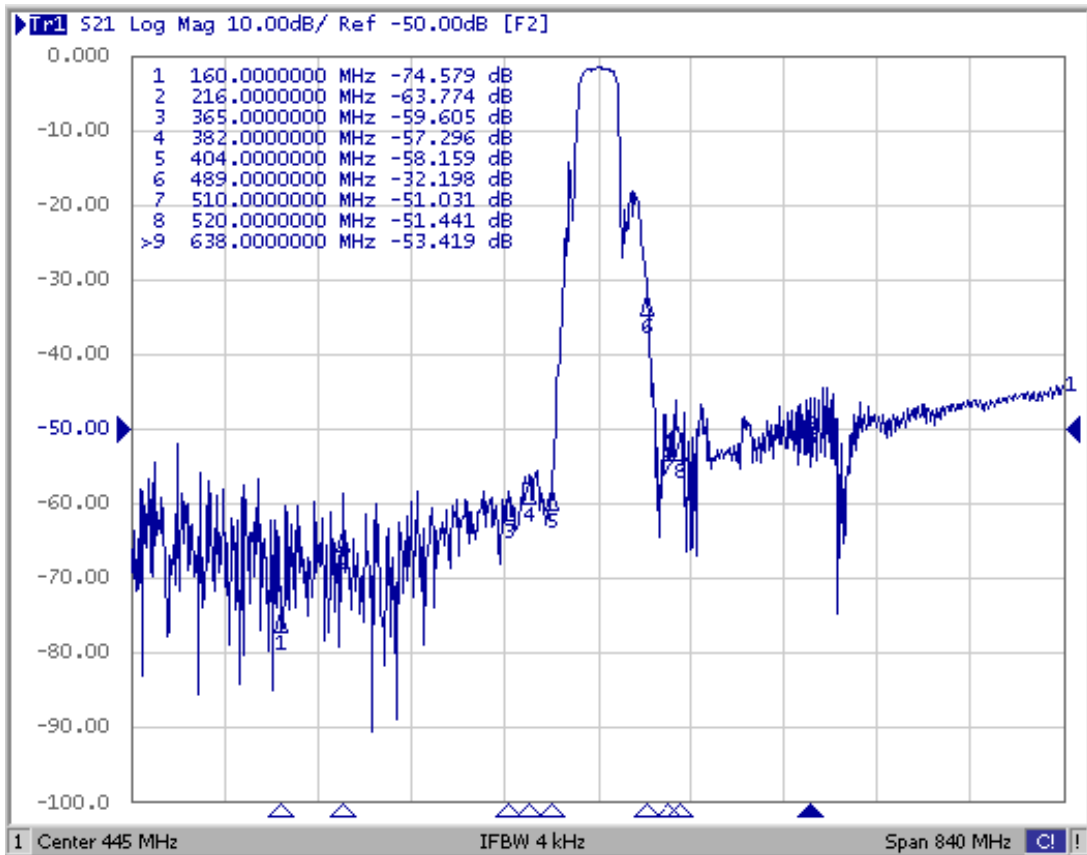
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

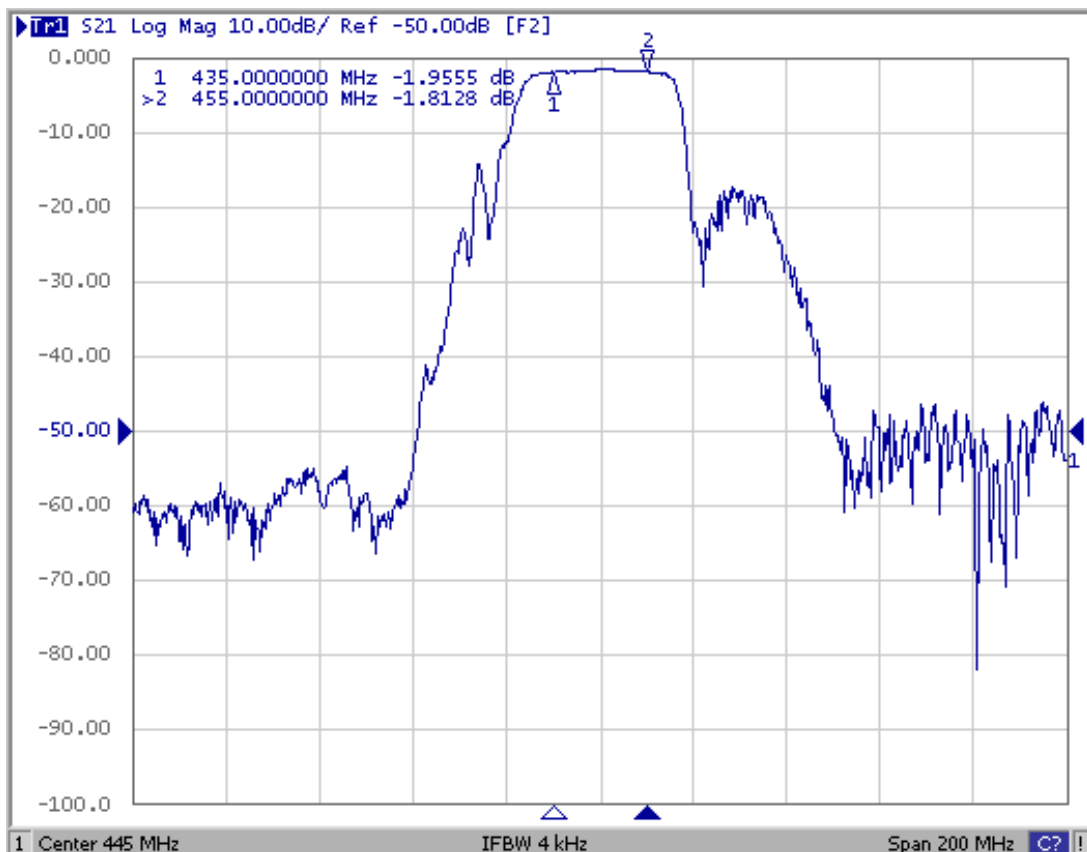
Item			Unit	Min.	Typ.	Max.
Center frequency	Fc	MHz		-	445	-
1dB Bandwidth		MHz	dB	20	29	-
VSWR			dB		1.6	2.0
Insertion loss	435 ~ 455	MHz	dB	-	2.0	3.3
Attenuation (reference from 0dB)						
10 ~ 160	MHz		dB	35	52	-
216 ~ 365	MHz		dB	30	58	-
365 ~ 382	MHz		dB	25	56	-
382 ~ 404	MHz		dB	15	55	-
489 ~ 510	MHz		dB	15	32	-
510 ~ 520	MHz		dB	25	46	-
520 ~ 638	MHz		dB	30	45	-
638 ~ 850	MHz		dB	27	44	-
Source impedance	Z _S		Ω	-	50	-
Load impedance	Z _L		Ω	-	50	-

C. FREQUENCY CHARACTERISTICS:

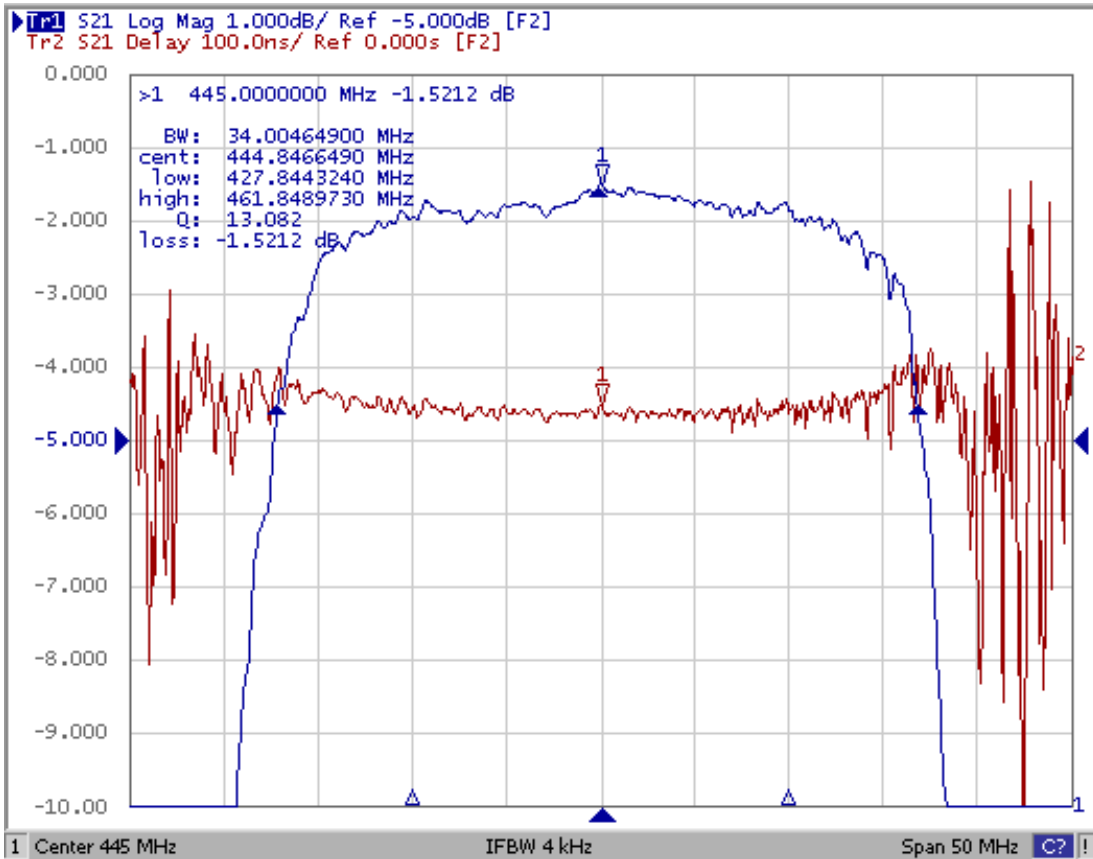
Wideband response: (span 840MHz)



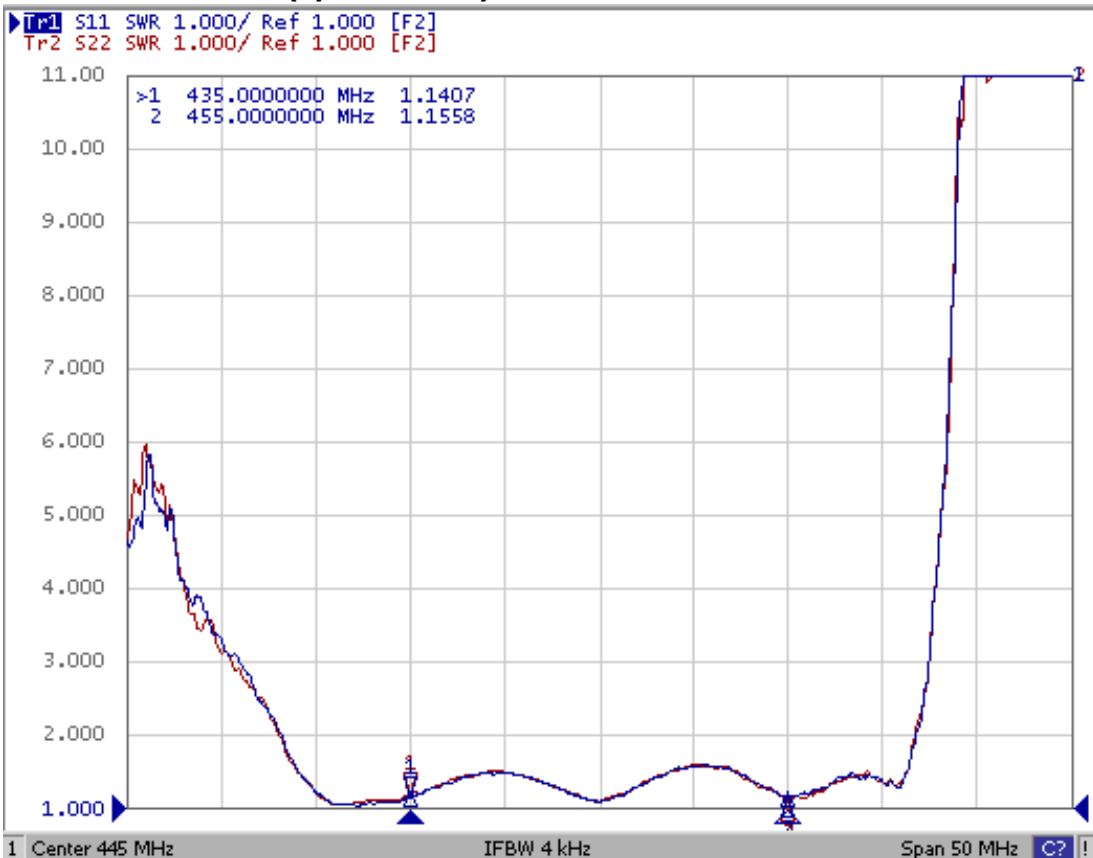
S21 response: (span 200MHz)



Passband response: (span 50MHz)

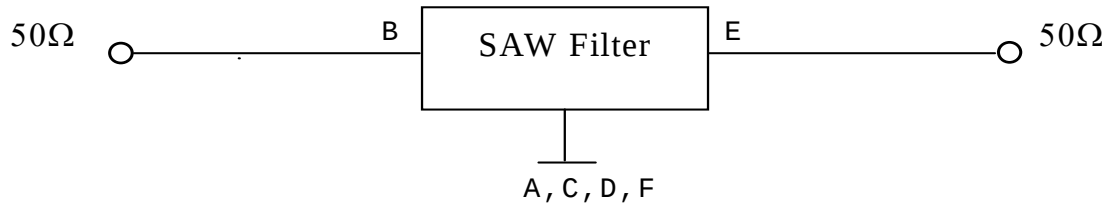


S11 & S22 VSWR: (span 50MHz)

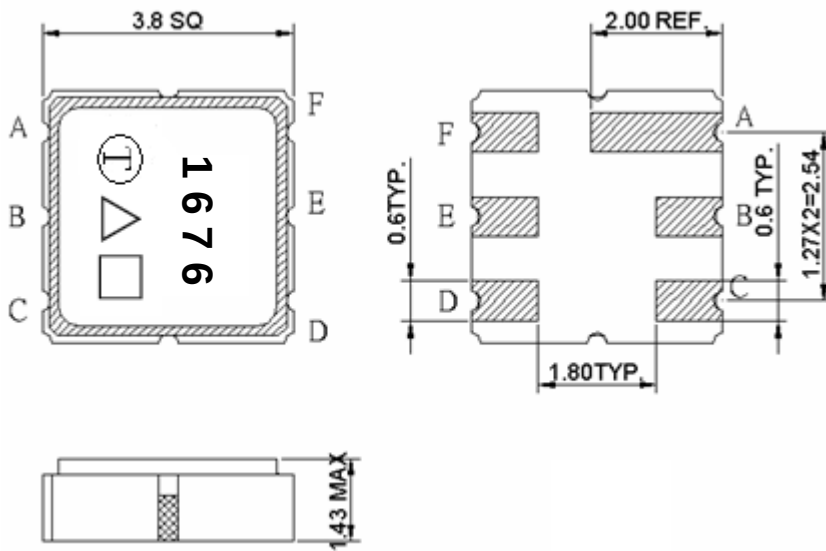


D. MEASUREMENT CIRCUIT:

HP Network analyzer



E. OUTLINE DRAWING:

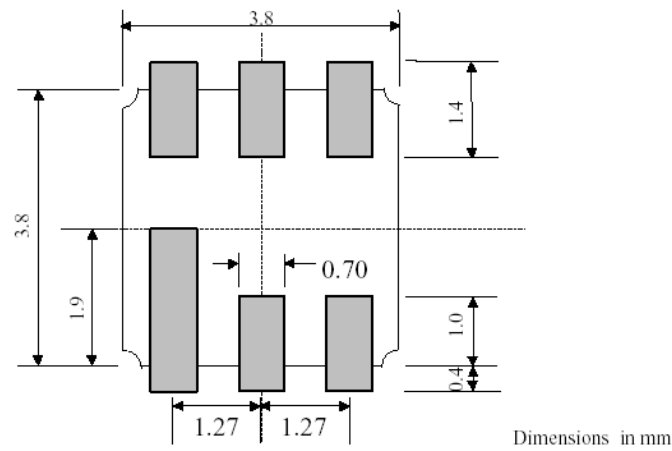


B : Input
E: Output
A,C,D,F Ground
△:Year Code
□: Date Code(Follow the table provided by planner each year.)
Unit: mm

△ Product Year Code

Year	2011	2012
	2013	2014
	2015	2016
Product Code	A	a

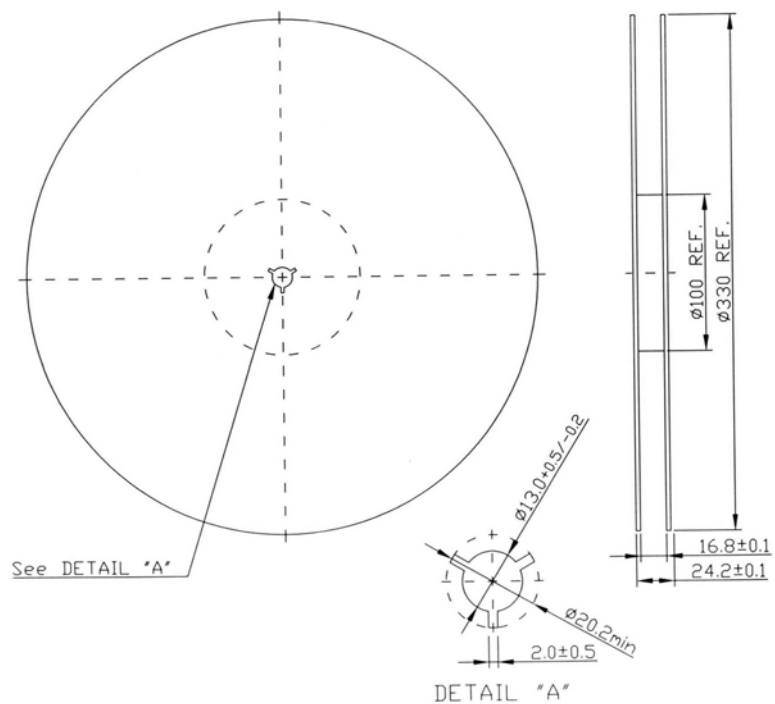
F. PCB FootPrint



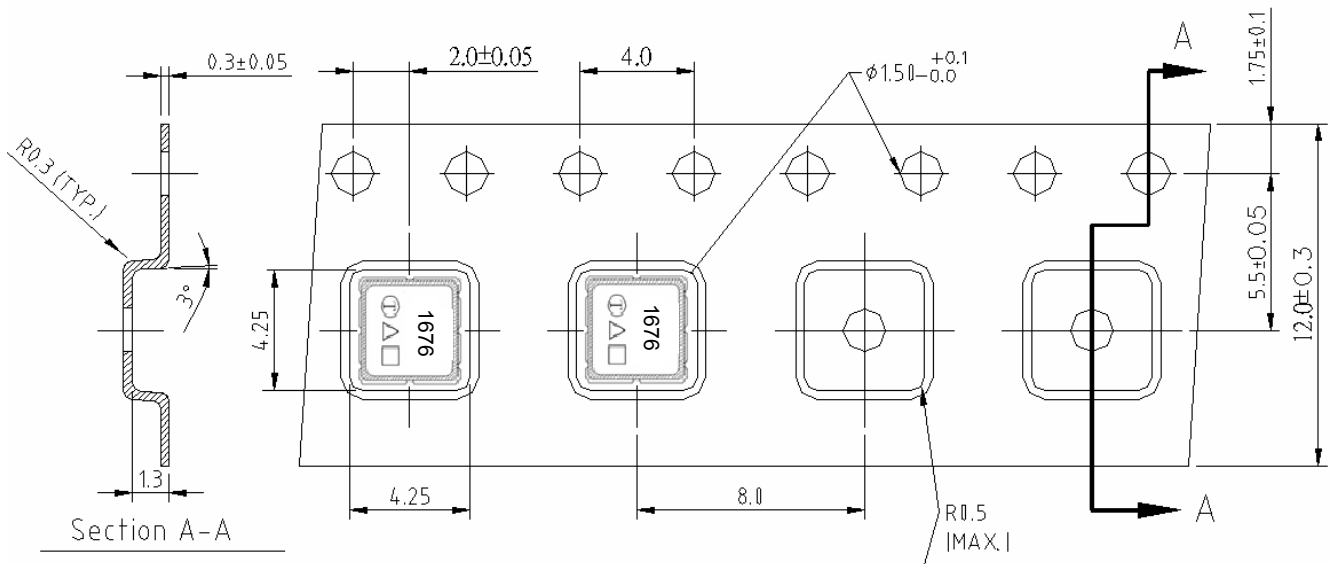
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

