



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 Description: SAW Filter 886 MHz SMD 5.0X5.0 mm (BW=10MHz)

TST Part No.: TA1365A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Kevin *Kevin*

Approved by: _____ Francis Chen *Francis Chen*

Date: _____ 2011/12/26

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 886 MHz

MODEL NO.: TA1365A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -30°C to +85°C

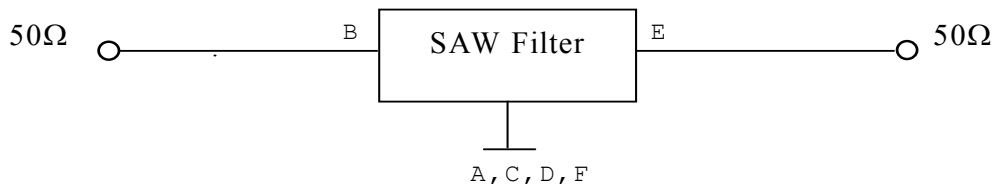
RoHS Compliant
Lead free
Lead-free soldering

B. ELECTRICAL CHARACTERISTICS:

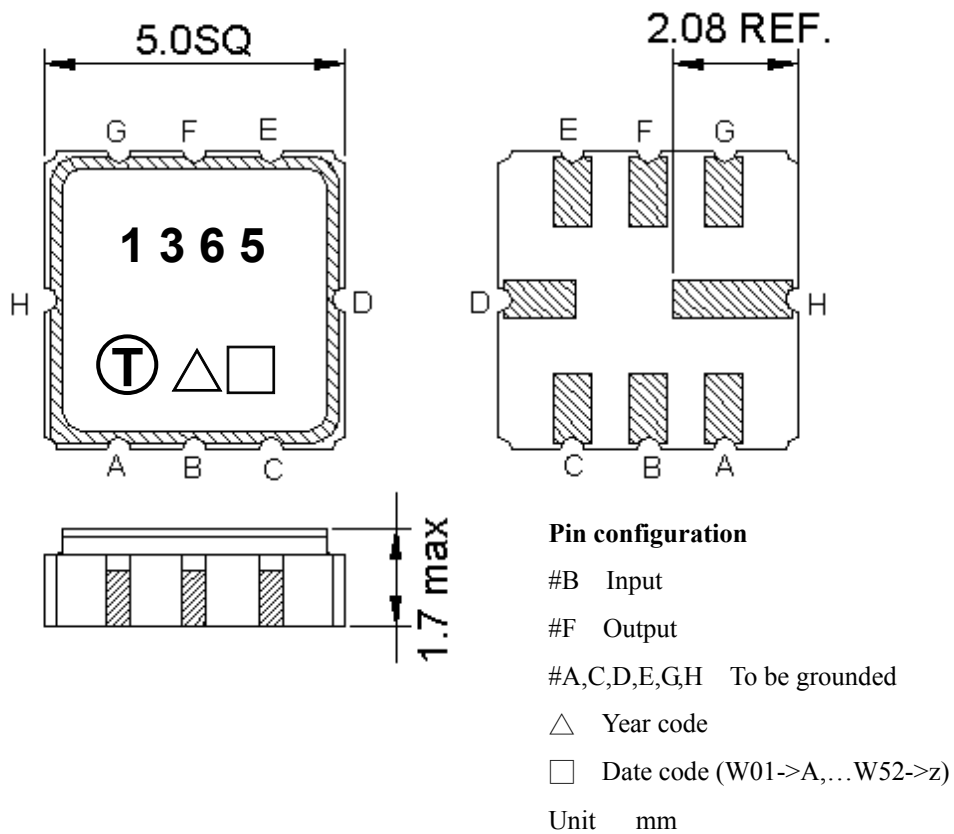
Item	Unit	Min.	Typ.	Max.
Center frequency	F _c MHz	-	886	-
Insertion loss (881 ~ 891 MHz)	IL dB	-	2.5	4.5
Amplitude ripple(p-p) (881 ~ 891 MHz)	dB	-	1.5	3.5
Return Loss (881 ~ 891 MHz)	dB	8	11.5	-
Attenuation (Reference level from 0 dB)				
790 ~ 870 MHz	dB	32	36	-
870 ~ 875 MHz	dB	12	15	-
920 ~ 990 MHz	dB	35	40	-
Source impedance	Z _s Ω	-	50	-
Load impedance	Z _L Ω	-	50	-

C. MEASUREMENT CIRCUIT:

HP Network analyzer



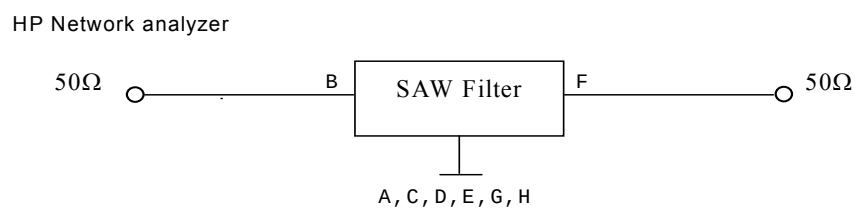
D. OUTLINE DRAWING:



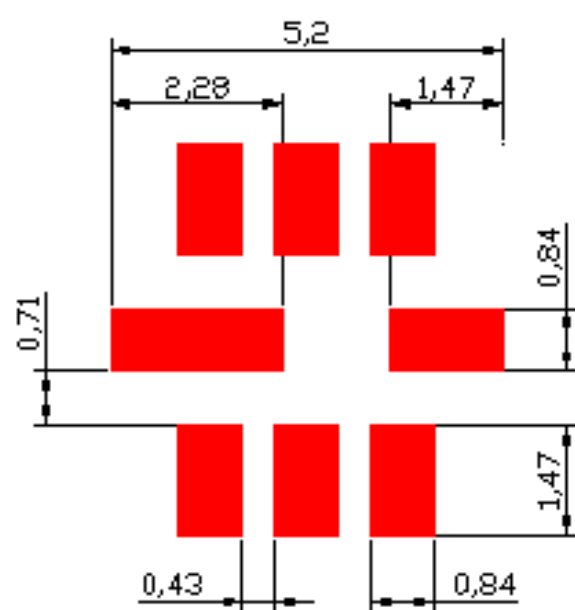
△ : Product / Year Code

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

E. MEASUREMENT CIRCUIT:

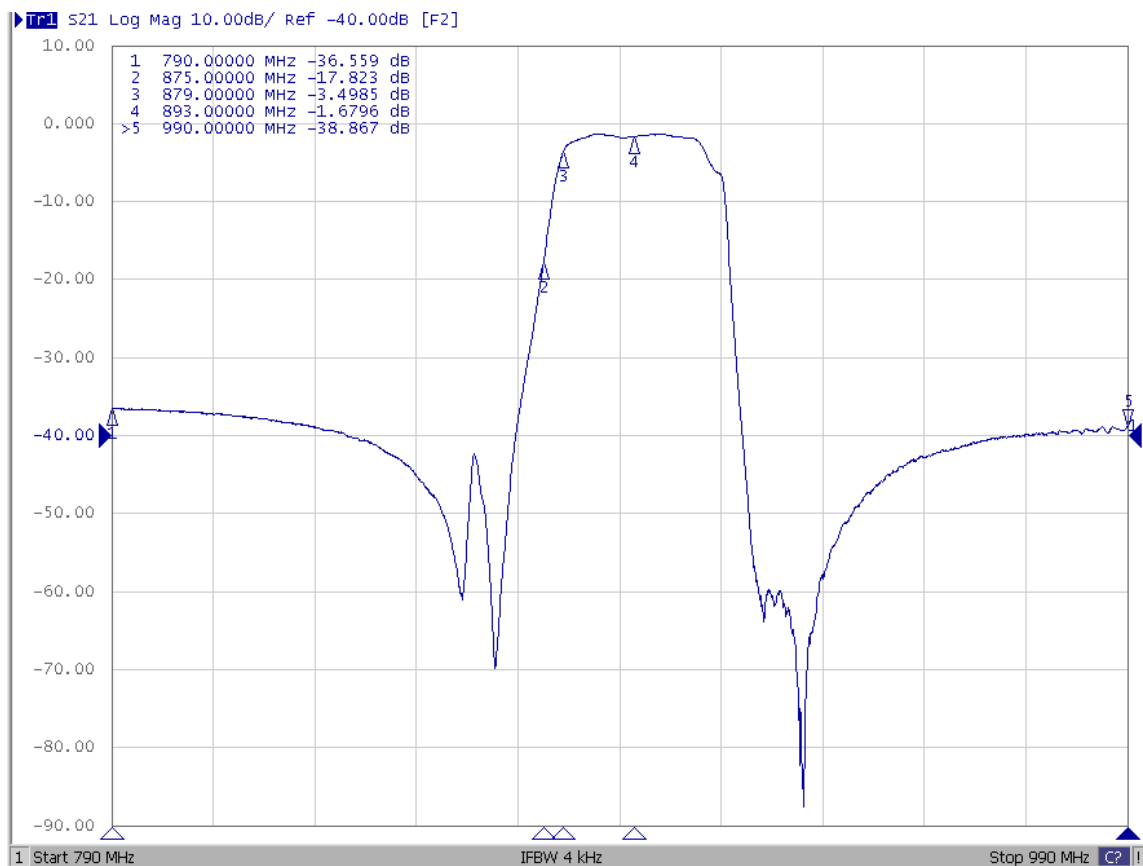
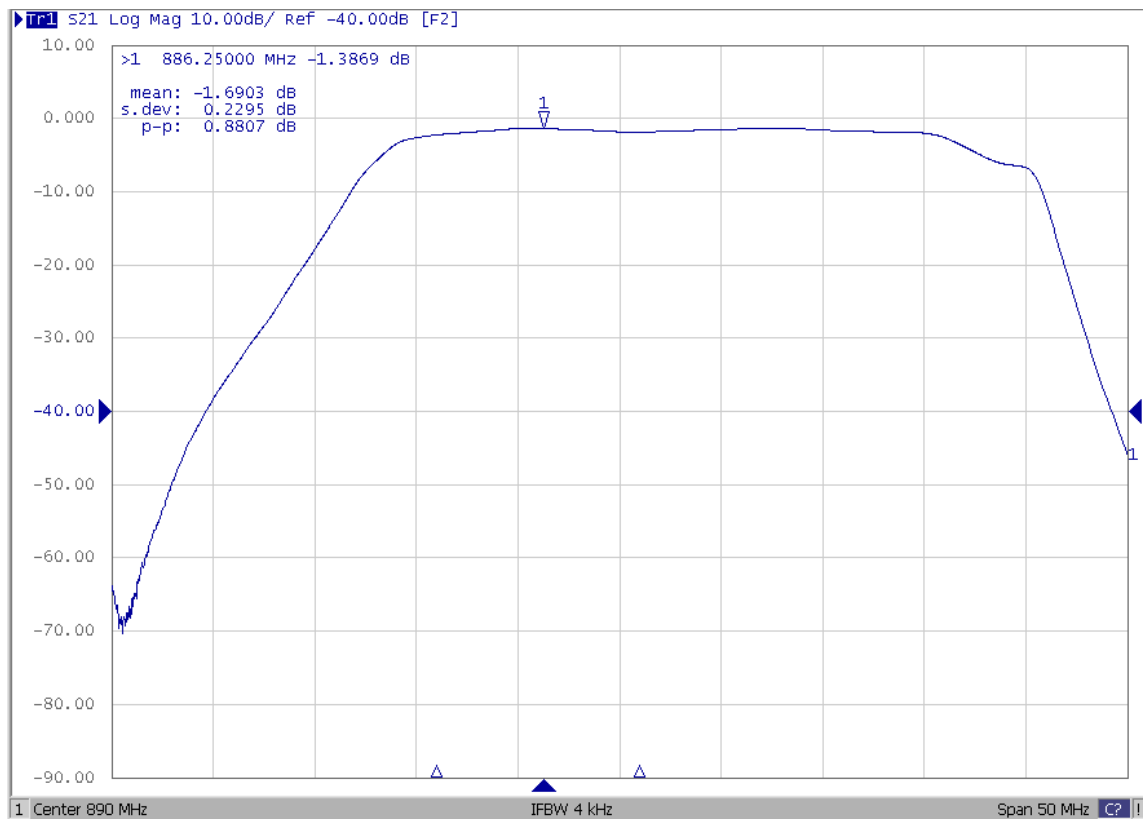


F. PCB Footprint:

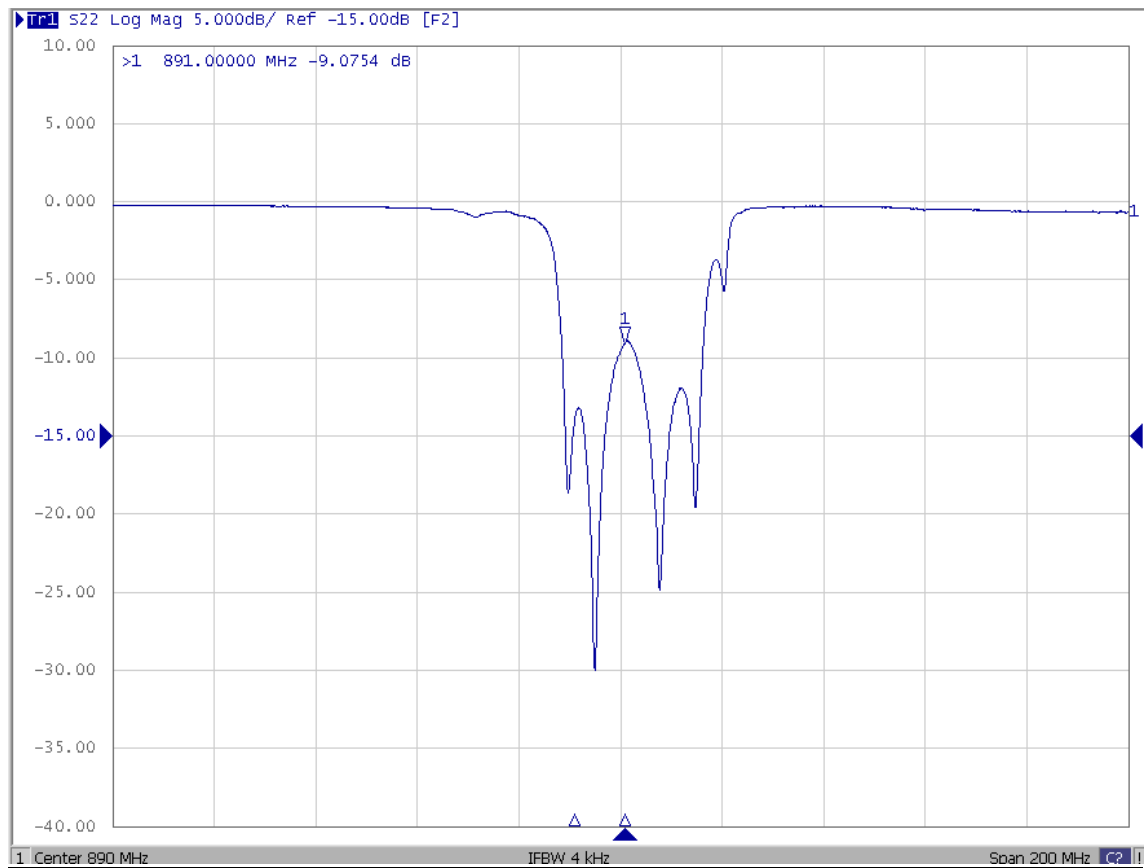


G. Frequency Characteristics :

*Transfer function



***Reflection Functions :**



1. REEL DIMENSION

See DETAIL 'A'

Technical drawing showing a circular structure with a central detail callout. The main view is a circle with a dashed center line and a dashed circle. A detail callout 'A' is shown at the bottom right, indicating a cross-section of the structure. The callout shows a circular cross-section with a central hole and a surrounding ring. The dimensions for the callout are: outer diameter $\phi 130 \pm 0.3$, inner diameter $\phi 20 \pm 0.1$, and a thickness of 20 ± 0.5 . The main view has a dimension of $\phi 100$ REF. and $\phi 330$ REF. The overall height of the structure is 12 TYP.

Technical drawing of a 1365 TA die. The drawing includes a top view and a cross-section labeled "SECTION A-A".

Top View Dimensions:

- Overall width: 12.0 ± 0.3
- Overall length: 5.3
- Central cavity width: 8.0
- Side cavity width: 5.3
- Side cavity depth: 5.5 ± 0.05
- Side cavity radius: $R0.5$ [TYP.]
- Side cavity chamfer: 0.3 ± 0.05
- Side cavity angle: 3°
- Side cavity thickness: 2
- Side cavity fillet: $R0.3$ [MAX.]
- Side cavity chamfer: 0.3 ± 0.05
- Side cavity angle: 3°
- Side cavity thickness: 2
- Side cavity fillet: $R0.3$ [MAX.]

Cross-Section Dimensions:

- Overall width: 12.0 ± 0.3
- Overall length: 5.3
- Central cavity width: 8.0
- Side cavity width: 5.3
- Side cavity depth: 5.5 ± 0.05
- Side cavity radius: $R0.5$ [TYP.]
- Side cavity chamfer: 0.3 ± 0.05
- Side cavity angle: 3°
- Side cavity thickness: 2
- Side cavity fillet: $R0.3$ [MAX.]
- Side cavity chamfer: 0.3 ± 0.05
- Side cavity angle: 3°
- Side cavity thickness: 2
- Side cavity fillet: $R0.3$ [MAX.]

Other Dimensions:

- Central cavity radius: $\phi 1.5 \pm 0.1$
- Side cavity radius: $\phi 1.5 \pm 0.1$
- Side cavity chamfer: 0.3 ± 0.05
- Side cavity angle: 3°
- Side cavity thickness: 2
- Side cavity fillet: $R0.3$ [MAX.]
- Side cavity chamfer: 0.3 ± 0.05
- Side cavity angle: 3°
- Side cavity thickness: 2
- Side cavity fillet: $R0.3$ [MAX.]

Direction of Feed: Indicated by an arrow pointing to the right.

I.RECOMMENDED REFLOW PROFILE:

