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 Specifications Approval Sheet

Product Description: SAW Filter 400 MHz SMD 5.0X5.0 mm

TST Part No.: TB0448A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Bob Chau

Approved by: Bob Chau

Date: 1, 16, 2014

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 400MHz

MODEL NO.:TB0448A REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

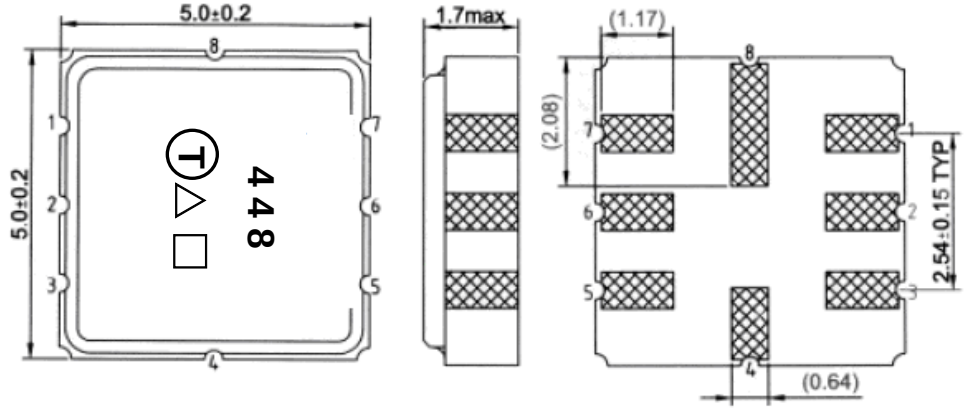
RoHS Compliant
Lead free
Lead-free soldering

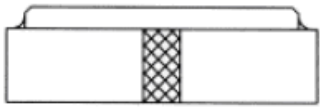
Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

Item		Unit	Min.	Typ.	Max.	Note
Center frequency,	**Fc**	MHz	-	400	-	-
Max. Insertion loss (**Fc** ± 75 kHz) (excluding loss in matching elements)	**IL**	dB	-	4.2	6.0	-
Max. Insertion loss (**Fc** ± 75 kHz) (including loss in matching elements)	**IL**	dB	-	5.2	7.5	-
Passband Ripple (**Fc** ± 75 kHz)		dB	-	0.3	2	-
Group Delay Ripple (**Fc** ± 75 kHz)		μ sec	-	0.6	2	-
Relative Attenuation (relative to **IL**)						
Fc - 100 to **Fc** - 1.5 MHz		dB	35	58	-	-
Fc - 1.5 to **Fc** - 0.8 MHz		dB	20	58	-	-
Fc - 0.8 to **Fc** - 0.6 MHz		dB	10	60	-	-
Fc - 0.6 to **Fc** - 0.4 MHz		dB	7	33	-	-
Fc + 0.4 to **Fc** + 0.6 MHz		dB	7	33	-	-
Fc + 0.6 to **Fc** + 0.8 MHz		dB	10	55	-	-
Fc + 0.8 to **Fc** + 1.5 MHz		dB	20	55	-	-
Fc + 1.5 to **Fc** + 100 MHz		dB	35	52	-	-
Temperature coefficient of frequency	**TCf**	-0.036 ppm/K^2				

C.OUTLINE DRAWING:





Pin configuration

#1 Input

#2 Input ground or balanced input

#5 Output

#6 Output ground or balanced output

#3,4,7,8 To be grounded

△ Year code

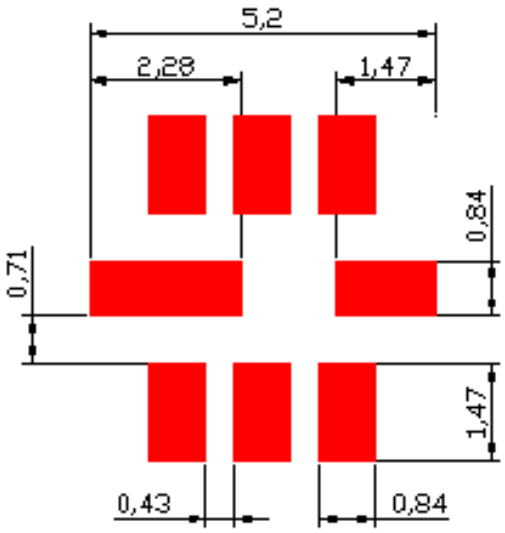
□ Date code

Unit mm

Product Year Code

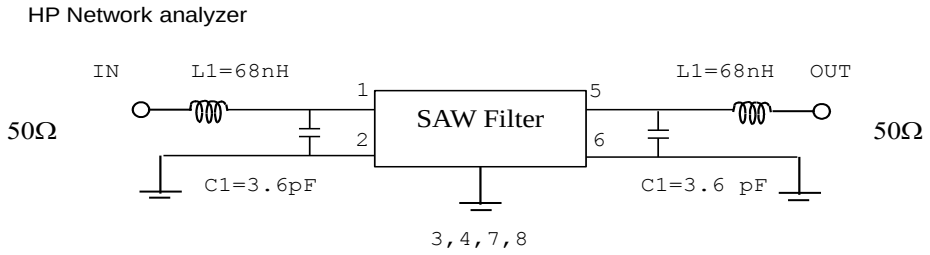
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	B	b

D. PCB Footprint:

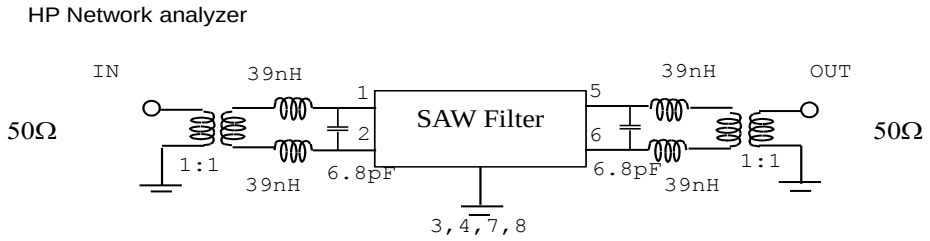


E. MEASUREMENT CIRCUIT:

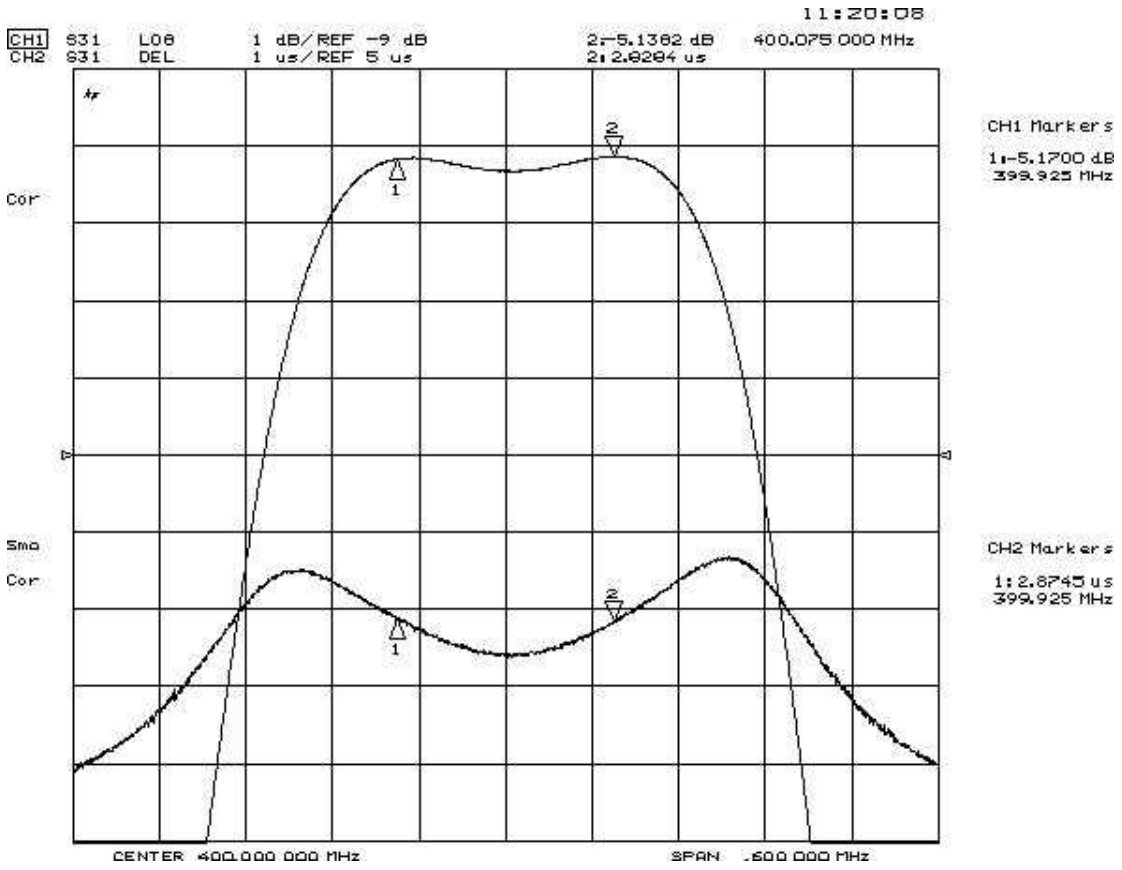
50 Ohm Test circuit (single-ended / single-ended)



50 Ohm Test circuit (balanced-ended / balanced-ended)



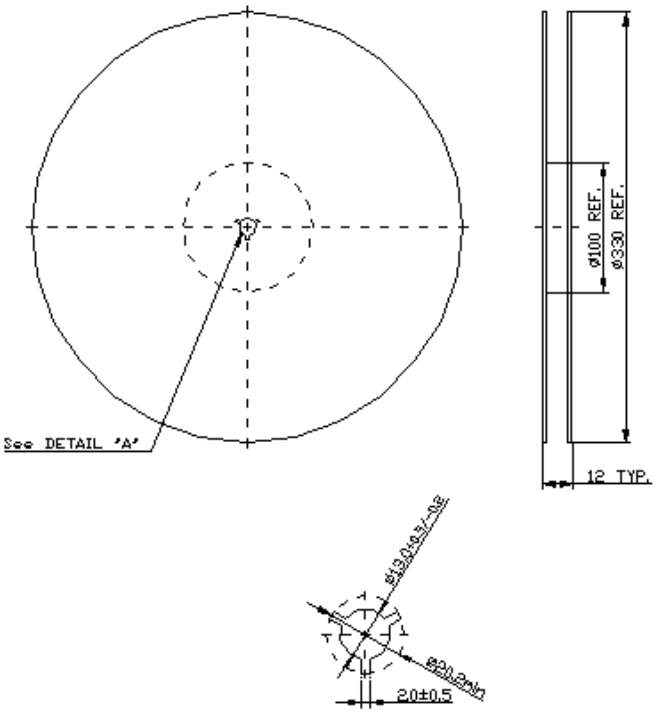
F. Frequency Characteristics :



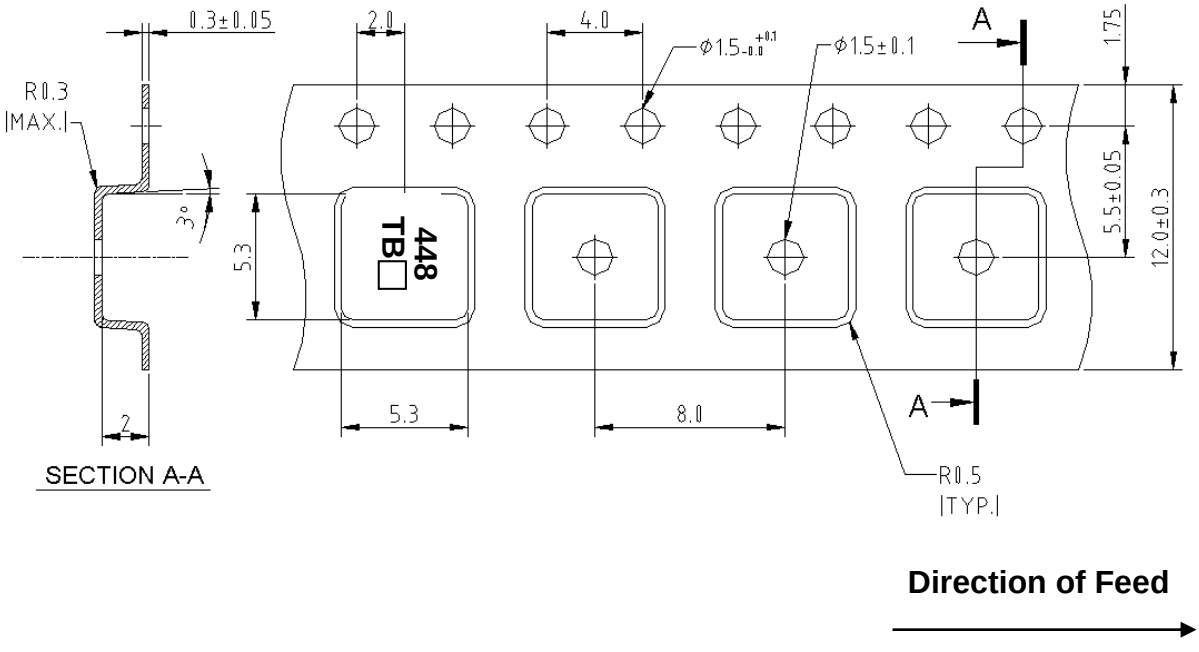
G. PACKING:

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℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 245~260℃ peak (min. 10sec).
4. Time : 2 times.