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 Name: SAW Filter 2437 MHz SMD 1.4x1.1 mm (BW=20 MHz)

TST Parts No.: TA2239A

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: David Chang

Approved by: Andy Yu

Date: 2017/07/18

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 2437 MHz

MODEL NO.: TA2239A REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 5 V
3. Operating Temperature: -25℃ to +75℃
4. Storage Temperature: -40℃ to +85℃

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

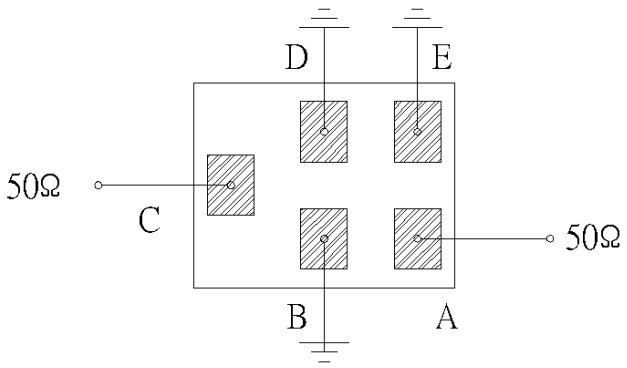
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : Zs = 50 Ω

Terminating load impedance : Z_L = 50 Ω

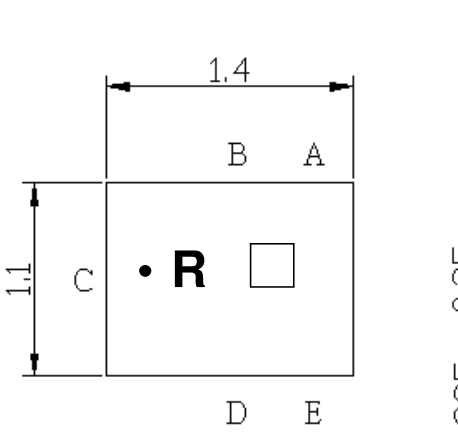
Item		Unit	Min.	Typ.	Max.
Center Frequency	**Fc**	MHz	-	2437	-
Insertion Loss (2427~2447 MHz)	**IL**	dB	-	1.8	3.2
Amplitude ripple (2427~2447 MHz)		dB	-	0.7	1.7
VSWR (2427~2447 MHz)		-	-	1.8	2.3
Attenuation (Reference level from 0 dB)					
2100~2380 MHz		dB	28	35	-
2380~2402 MHz		dB	3	7	-
2480~2490 MHz		dB	3	11	-
2490~2800 MHz		dB	26	33	-
Temperature coefficient of frequency		ppm/k	-	-36	-

C. MEASUREMENT CIRCUIT:

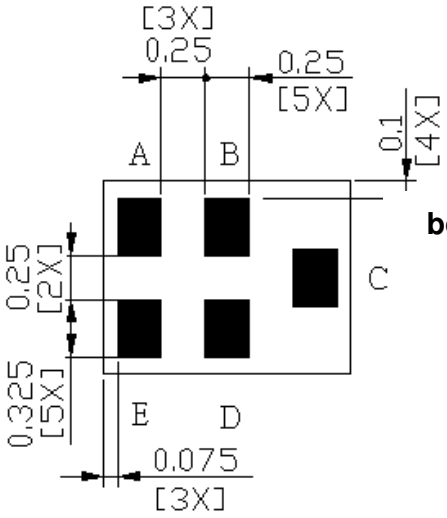


D. OUTLINE DRAWING:

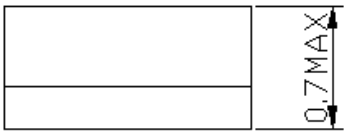
top view



bottom view



side view

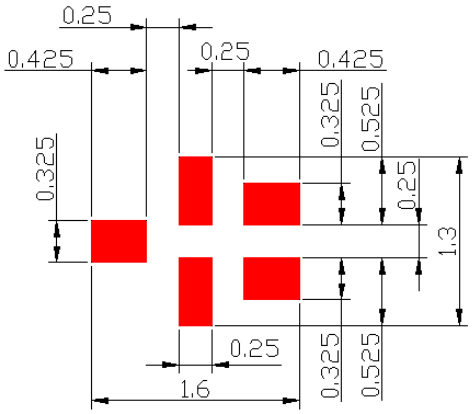


C: Input
A: Output
B, D, E: Ground
Unit: mm

☐ **: Year/Month Code (Follow the table)**

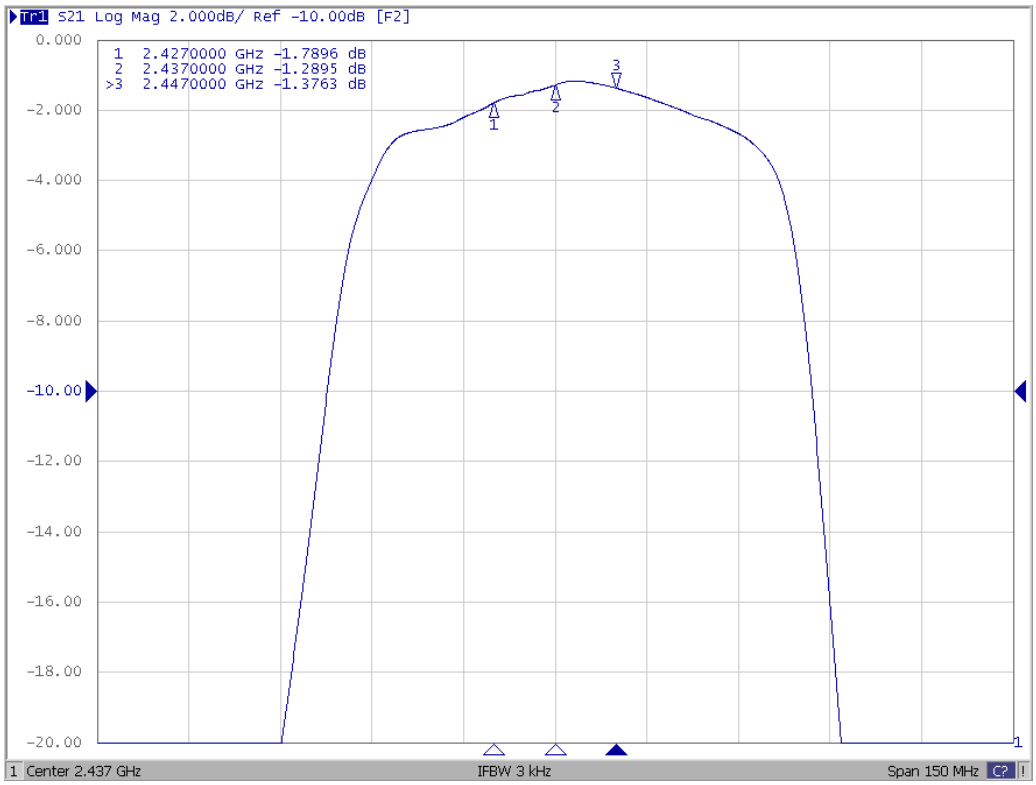
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2014	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2015	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2016	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2017	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2018	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2019	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2020	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

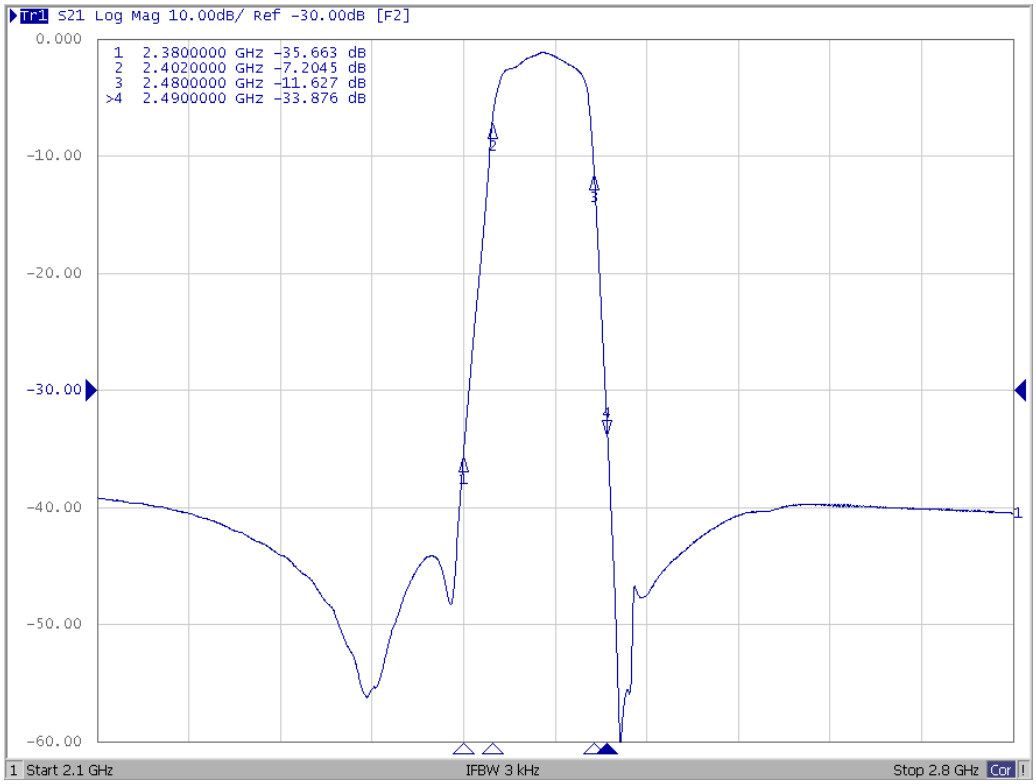
E. PCB Footprint:



: Land Pattern
Unit : mm

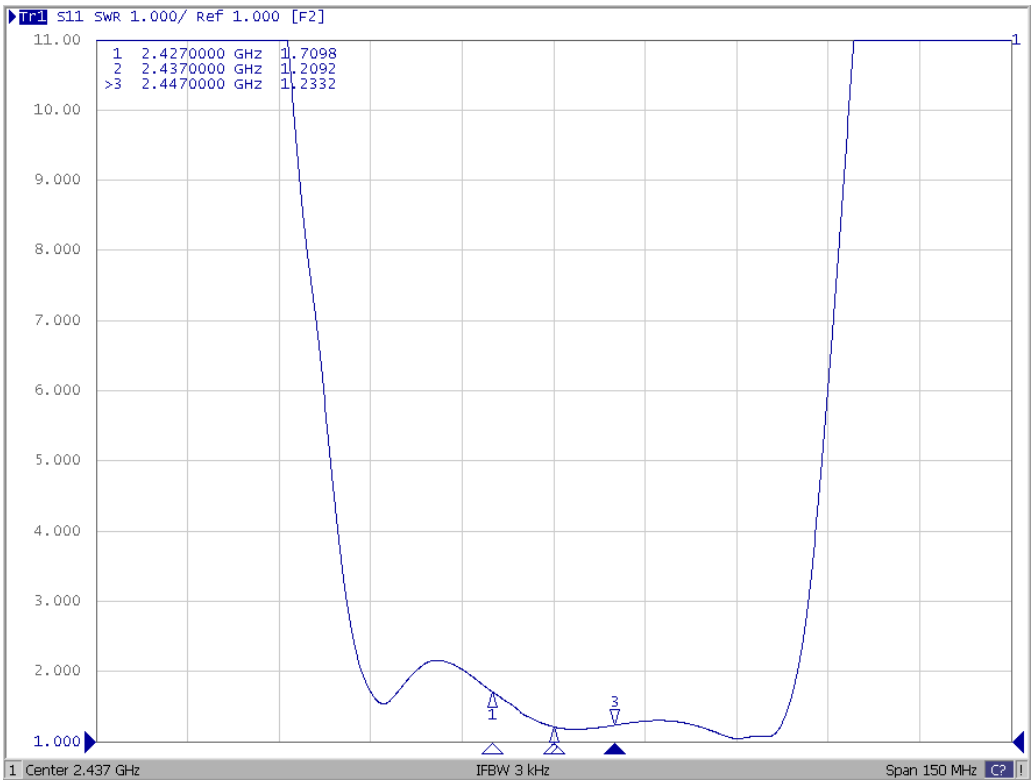
F. Frequency Characteristics:



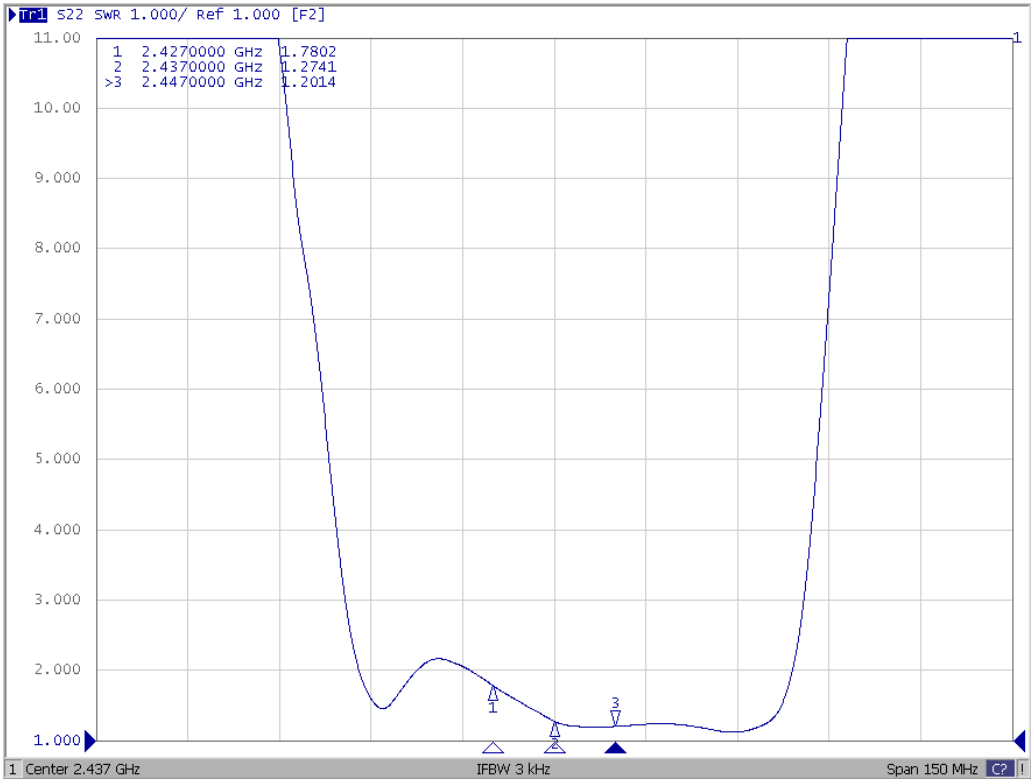


Reflection Functions:

S11



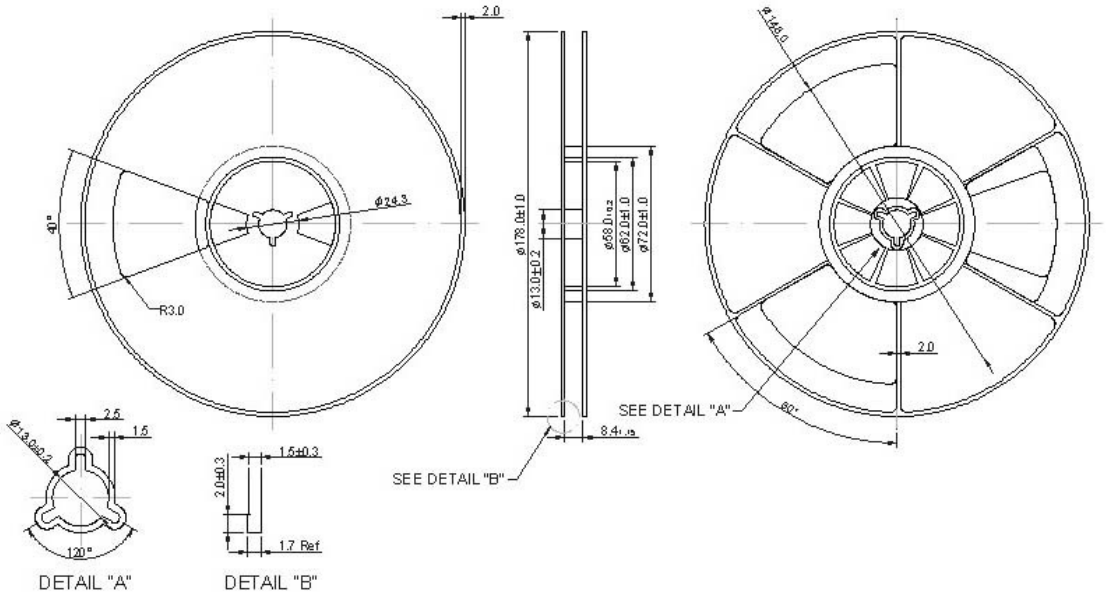
S22



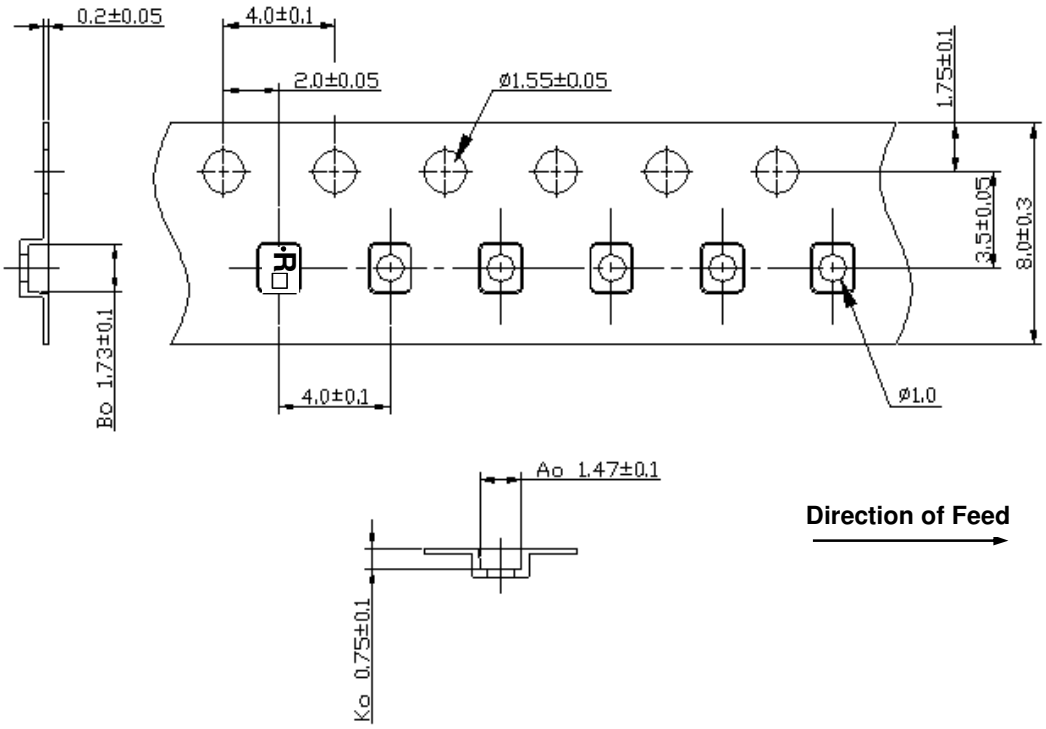
G. PACKING:

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 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.

