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 1575.42 MHz SMD 2.0×1.6 mm (BW=2 MHz)

TST Part No.: TA2382A (CSP type)

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: David Chang

Approved by: Andy Yu

Date: 2018/04/24

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 1575.42 MHz

MODEL NO.: TA2382A REV. NO.:1

A. MAXIMUM RATING:

1.Input Power Level: 10 dB_m
2.DC voltage: 7.5 V
3.Operating Temperature: -40°C to +85°C
4.Storage Temperature: -40°C to +95°C
5. Moisture Sensitivity Level: Level 3(**MSL3**)

RoHS Compliant

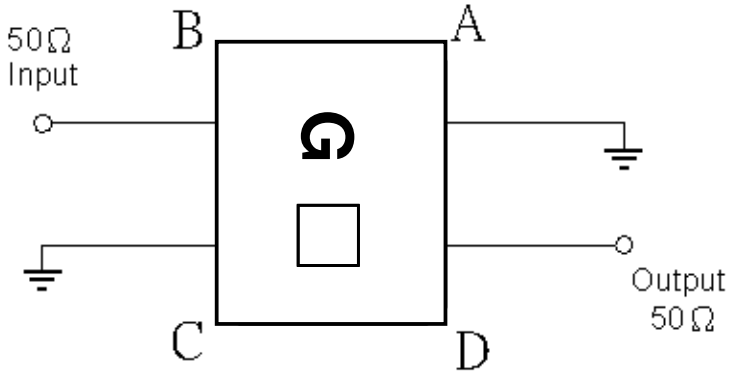
Lead-free soldering

Electrostatic Sensitive Device (**ESD**)

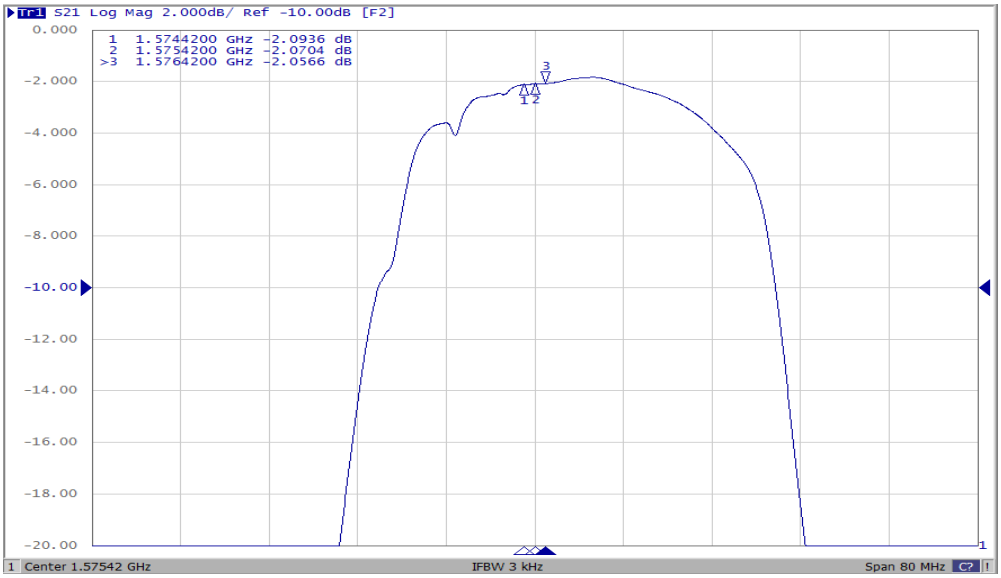
B. ELECTRICAL CHARACTERISTICS:

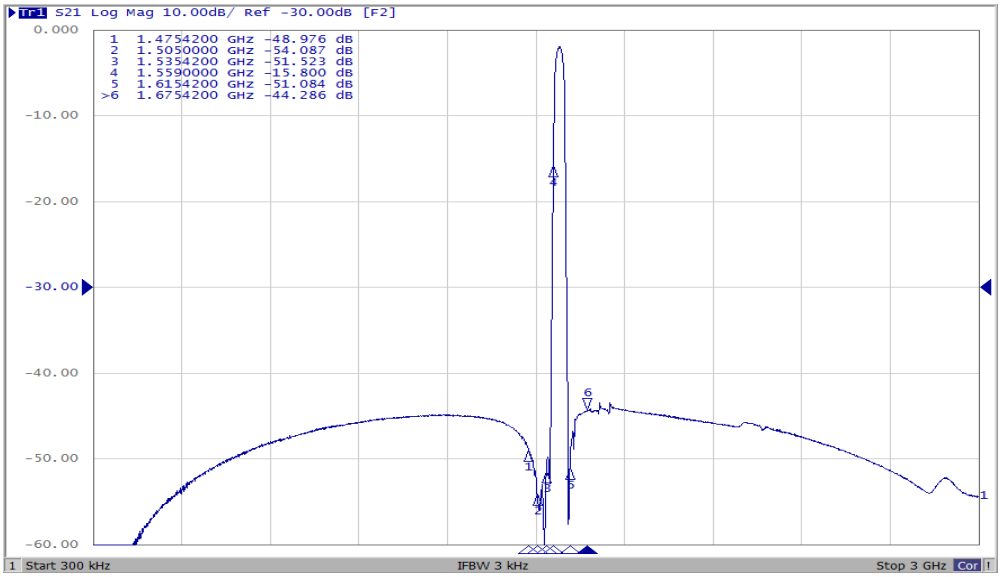
Item		Unit	Min.	Typ.	Max.
Center frequency	**Fc**	MHz	-	1575.42	-
Insertion Loss (1574.42~1576.42 MHz)	**IL**	dB	-	2.1	3.5
Amplitude Ripple (1574.42~1576.42 MHz)		dB	-	0.1	1.5
VSWR (1574.42~1576.42 MHz)		-	-	1.6	2.5
Attenuation (Reference level from 0 dB)					
1475.42 MHz		dB	35	49	-
1505 MHz		dB	41	54	-
1535.42 MHz		dB	30	51	-
1559 MHz **(at +25˚C only)**		dB	10	15	-
1615.42 MHz		dB	30	59	-
1675.42 MHz		dB	40	44	-
Temperature coefficient of frequency		ppm/k	-	-36	-

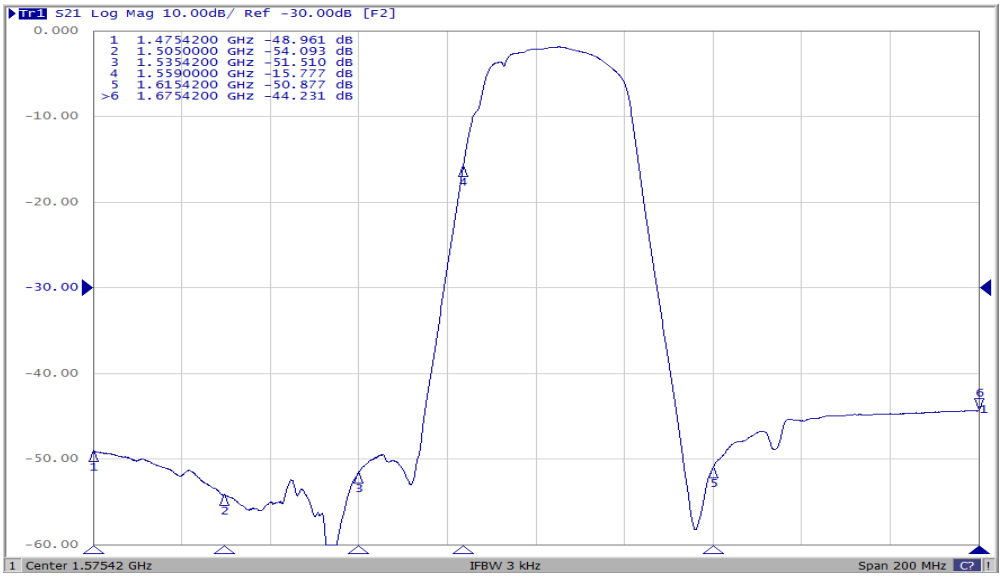
C. MEASUREMENT CIRCUIT:



D. Frequency Characteristics:

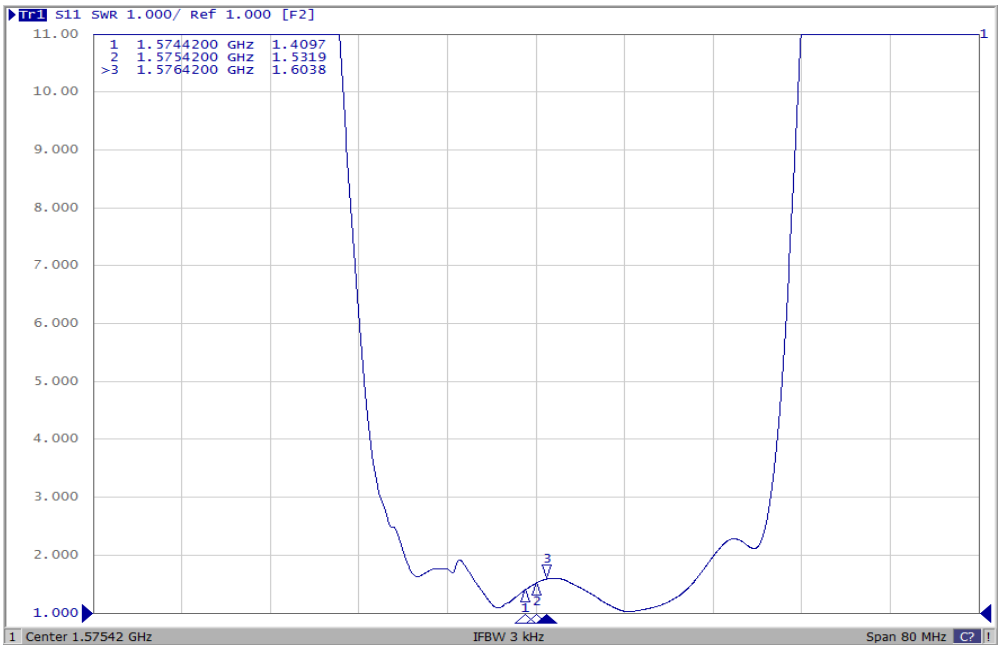




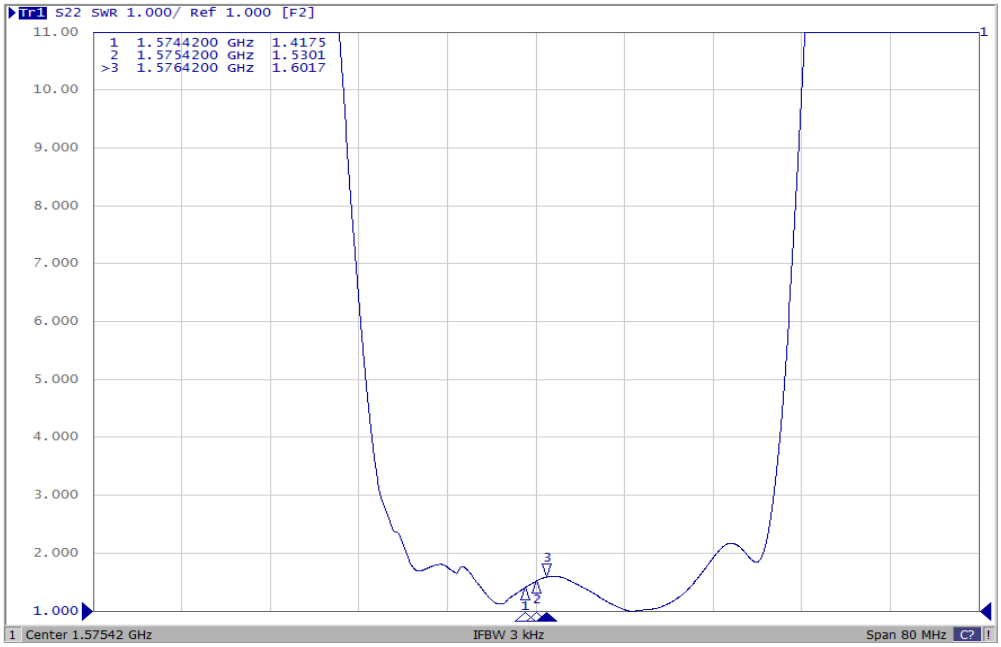


Reflection Functions:

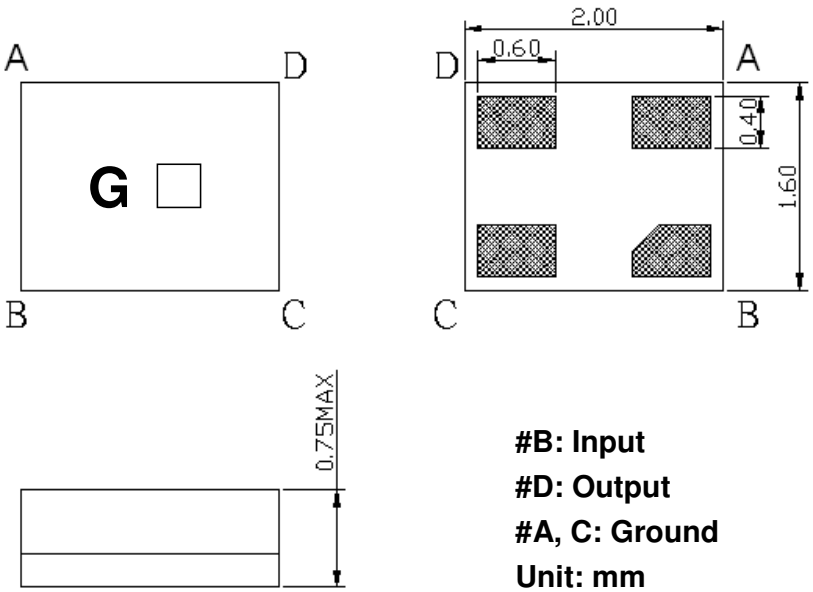
S11



S22



E. OUTLINE DRAWING:

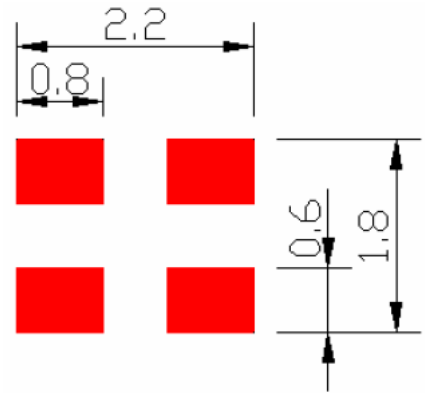


#B: Input
#D: Output
#A, C: Ground
Unit: mm

□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2018	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2019	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2020	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**i**	**m**
2021	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2018	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2019	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2020	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**i**	**m**
2021	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

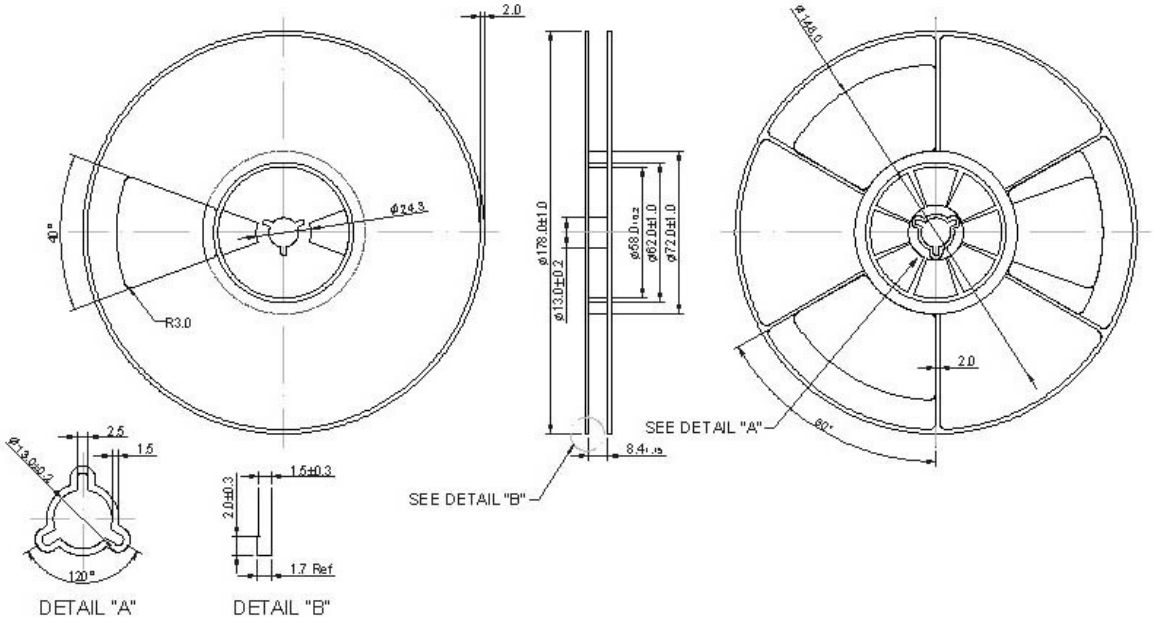
F. PCB Footprint:



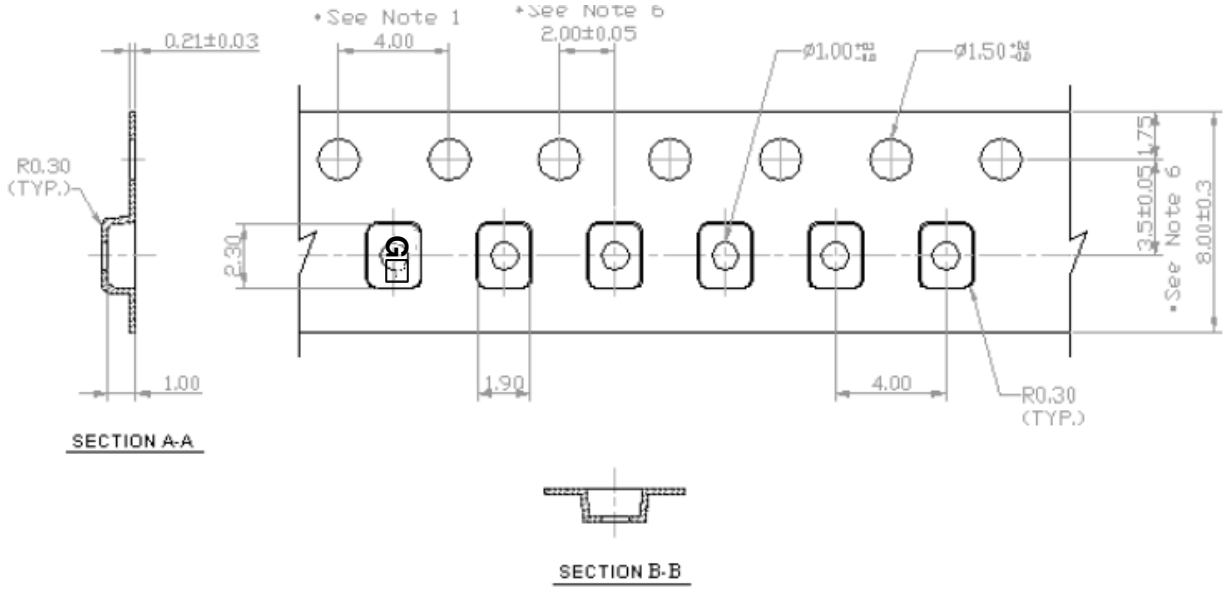
G. PACKING: (**Ref. WI-75M03**)

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.

