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 2.0x1.6 mm (BW=2 MHz)

TST Part No.: TA0406D (CSP type) (This part is is compliant with AEC-Q200)

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____David Chang_____

Approved by:_____Bob Chau_____

Date:_____09/01/2016_____

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 for GPS

MODEL NO.: TA0406D REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m (1574.42 ~ 1576.42 MHz)
2. Input Power Level: 10 dB_m (D.C. ~ 1500 MHz and 1625 ~ 3000MHz)
3. DC voltage: 7.5 V
4. Operating Temperature: -40°C to +85°C
5. Storage Temperature: -40°C to +95°C

RoHS Compliant
Lead free
Lead-free soldering

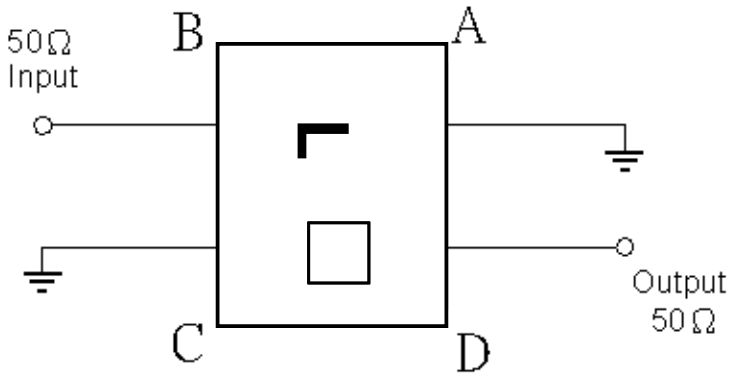
Electrostatic **S**ensitive **D**evice (**ESD**)

B. ELECTRICAL CHARACTERISTICS:

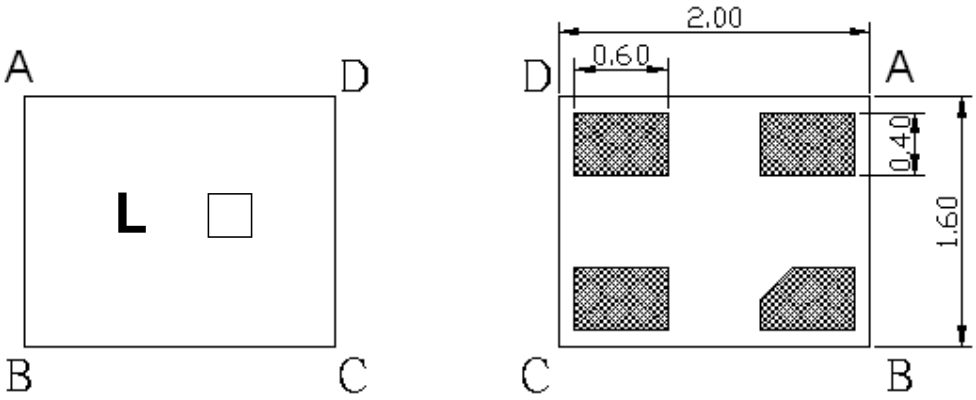
Item		Unit	Min.	Typ.	Max.
Center frequency	**Fc**	MHz	-	1575.42	-
Insertion loss (1574.42~1576.42 MHz)	**IL**	dB	-	1.2	1.6
Amplitude ripple (1574.42~1576.42 MHz)		dB	-	0.1	0.8
Bandwidth @ -2dB		MHz	-	42	-
VSWR (1574.42~1576.42 MHz)		-	-	1.2	1.8
Attenuation (Reference level from 0 dB)					
D.C. ~ 1000 MHz		dB	20	34	-
1500 MHz		dB	33	38	-
1625 ~ 1635 MHz		dB	30	39	-
1800 ~ 3000 MHz		dB	25	32	-
Source impedance	**Zs**	Ω	-	50	-
Load impedance	**Z_L**	Ω	-	50	-

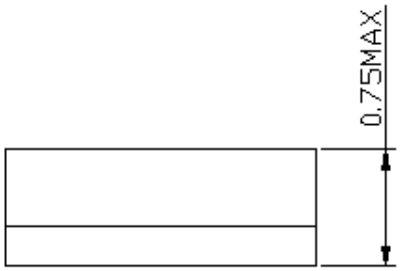
Note. The standard definitions is in JIS C 6703

C. MEASUREMENT CIRCUIT:



D. OUTLINE DRAWING:





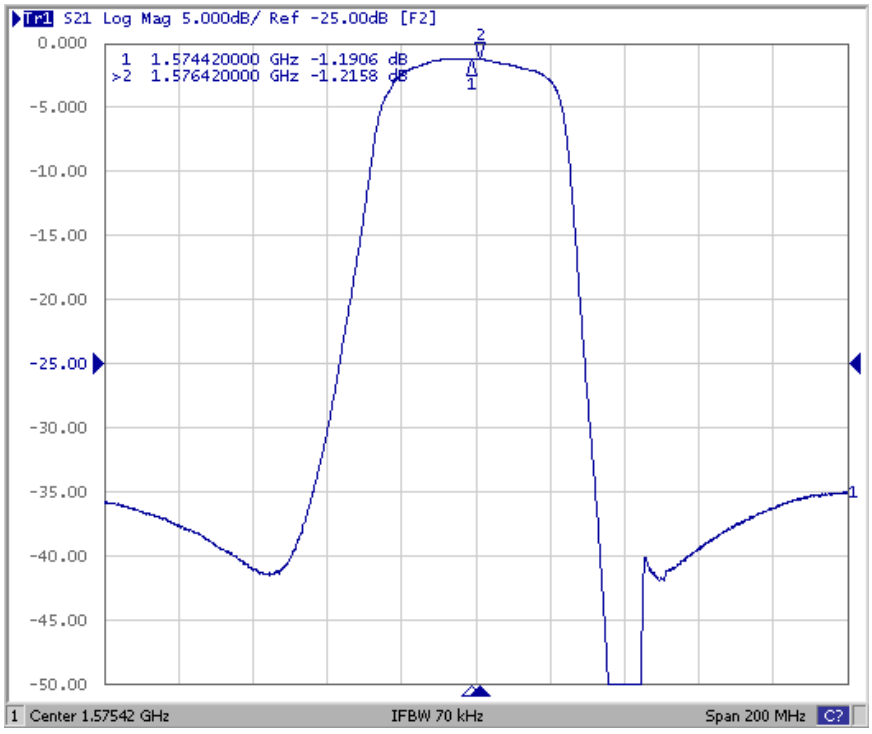
#B: Input
#D: Output
#A, C: Ground
Unit: mm

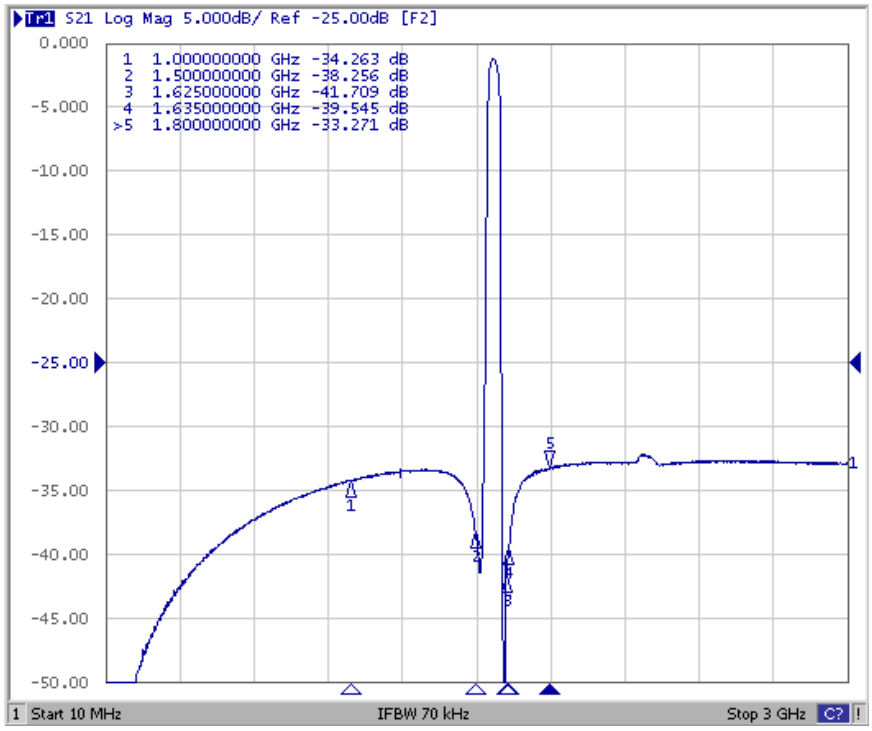
☐ **: Year/Month Code (Follow the table)**

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
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. Frequency Characteristics:

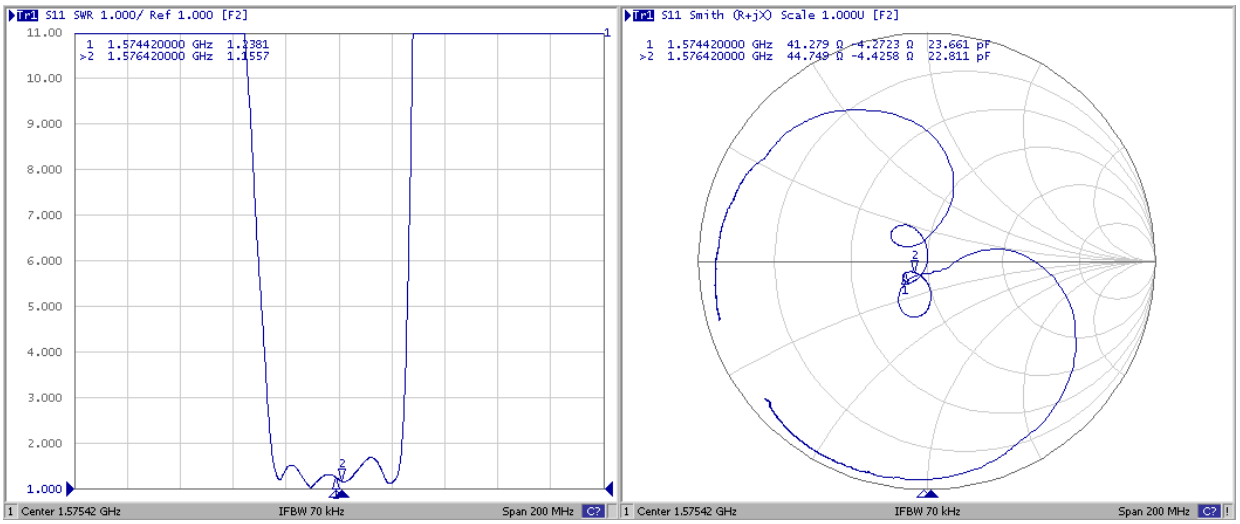
Transfer function



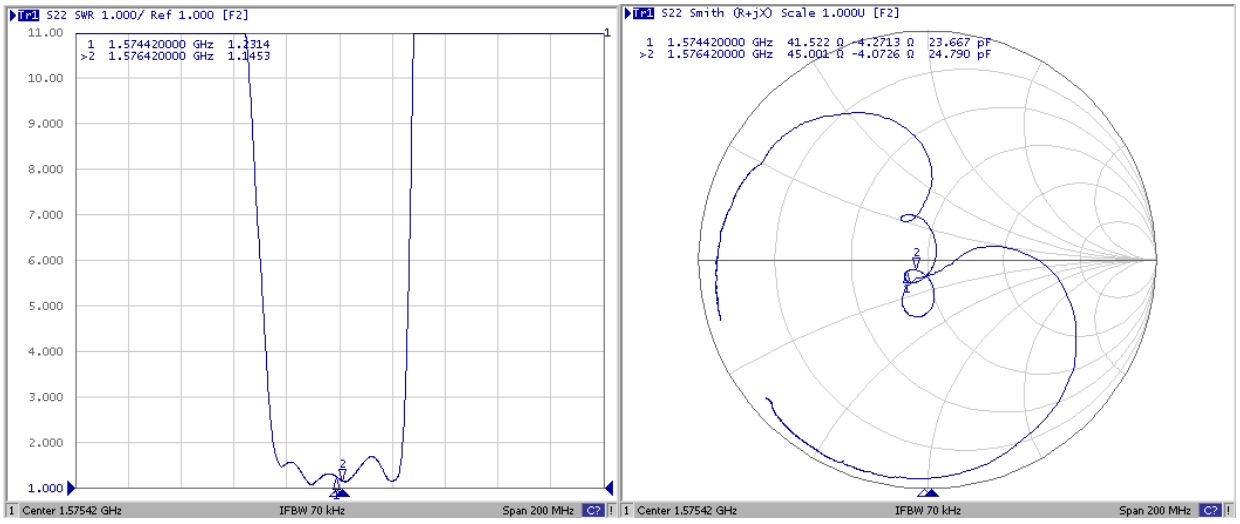


Reflections Functions:

S11 VSWR



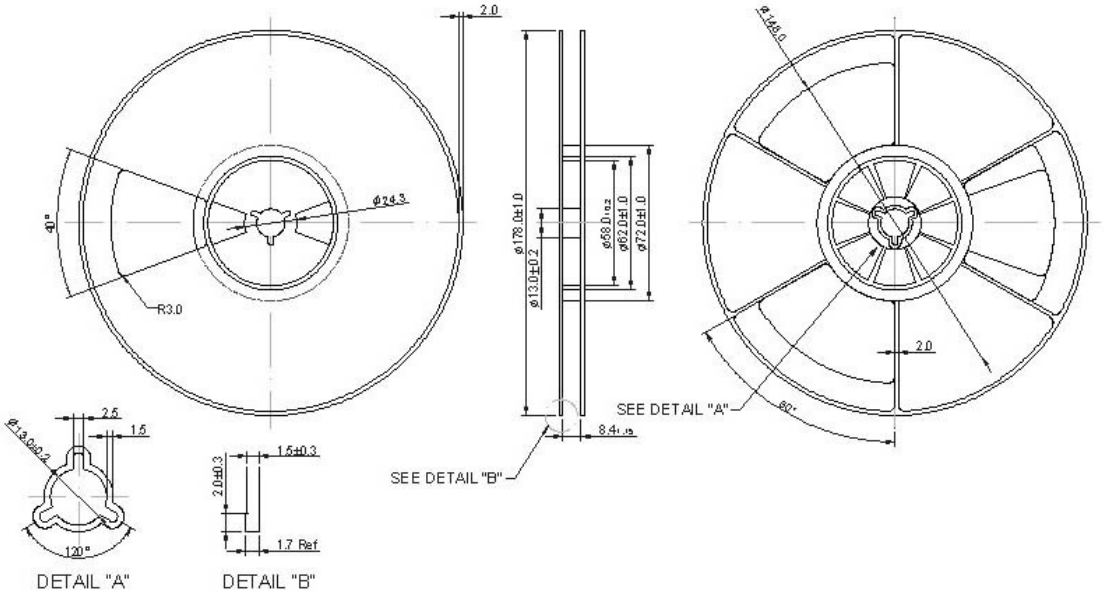
S22 VSWR



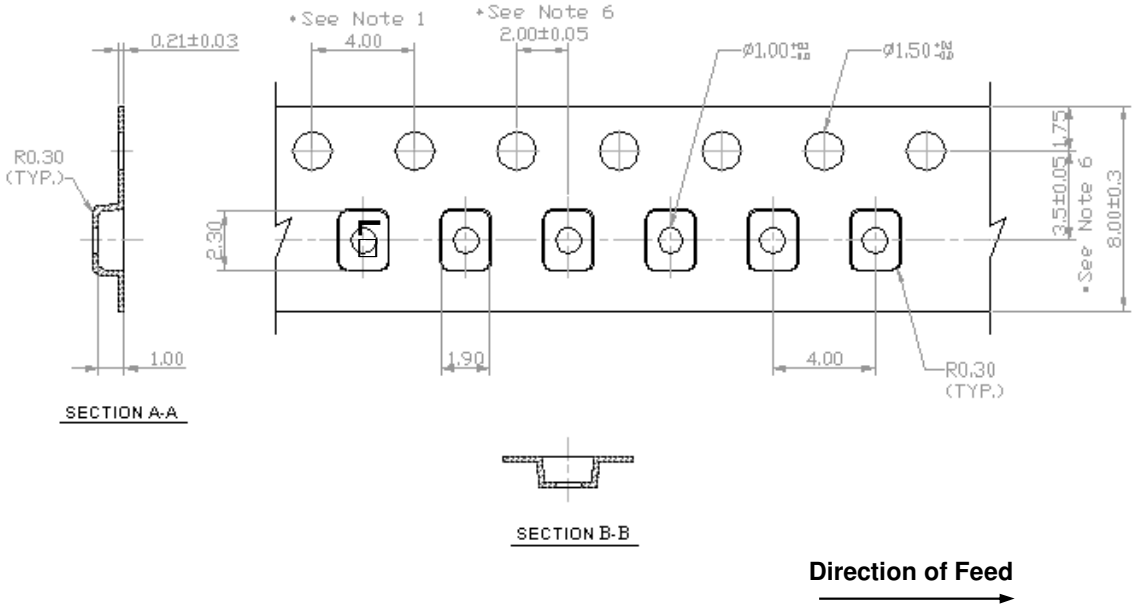
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G. 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.