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 403.5 MHz SMD 1.4X1.1 mm (BW=5 MHz)

TST Part No.: TA1775B

Customer Part No.:_____

Customer signature required

Company:_____

Division: _____

Approved by : _____

Date: _____

Checked by: Hayley Chou

Approved by: Andy Yu

Date: 2018/12/13

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 403.5 MHz

MODEL NO.:TA1775B REV. NO.:1.0

A. MAXIMUM RATING:

1. Maximum Input Power: 15 dBm
2. Maximum DC Voltage: 3 V
3. Operating Temperature: -30 ℃ to +70 ℃
4. Storage Temperature: -40 ℃ to +85 ℃
5. Moisture Sensitivity Level: Level 3 (MSL 3)

RoHS Compliant
Lead free
Lead-free soldering

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

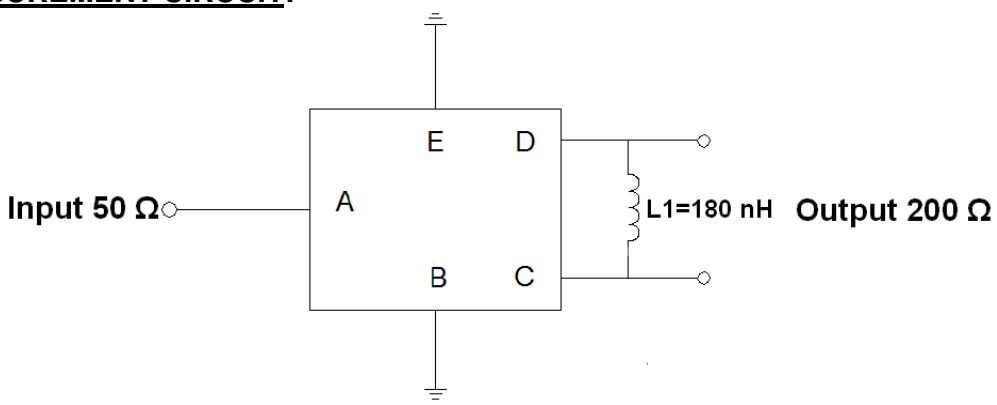
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: Zs = 50 Ω (Single-ended)

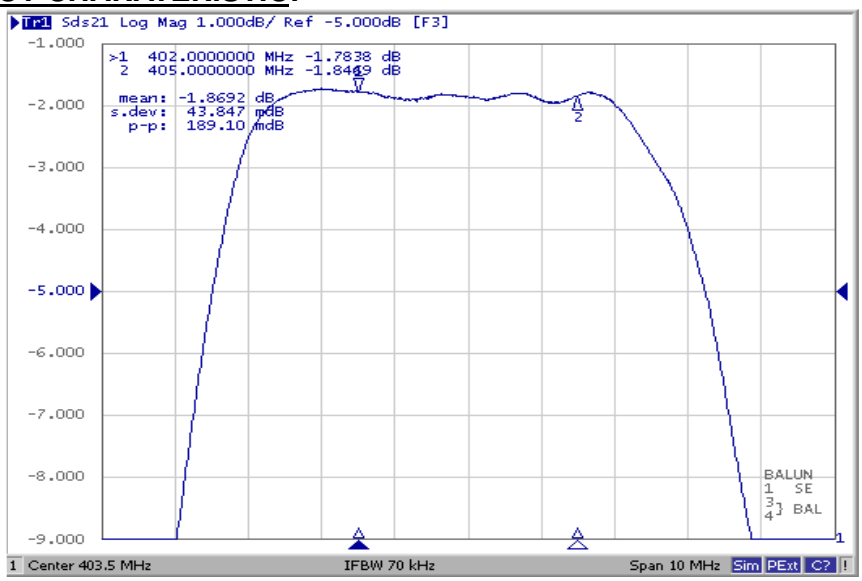
Terminating load impedance: Z_L = 200 Ω (Balanced)

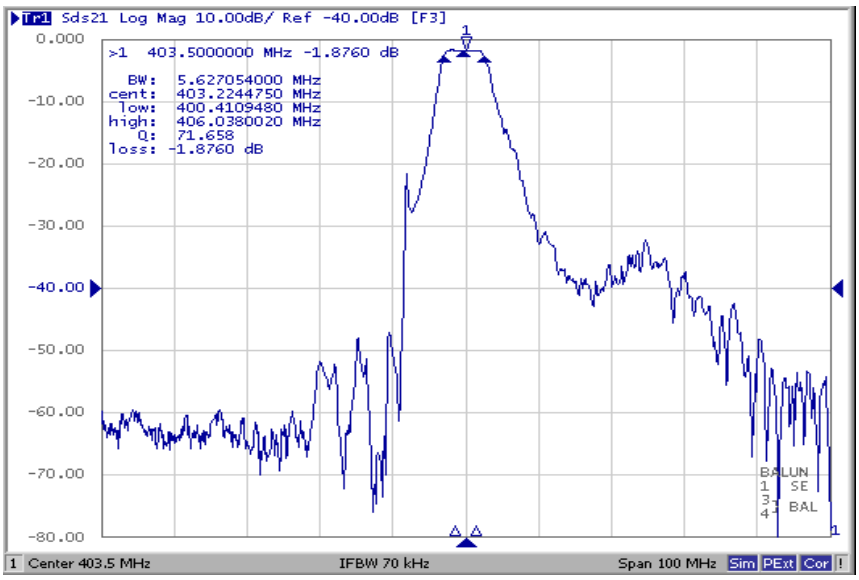
Parameters Description		Unit	Min.	Typ.	Max.
Center Frequency	**Fc**	MHz	-	403.5	-
-1.5 dB Band Width	**BW**	MHz	3.0	5.0	-
Insertion Loss (402~405 MHz)	**IL**	dB	-	2.4	3.0
Amplitude Ripple (402~405 MHz)		dB	-	0.2	1.4
VSWR (402~405 MHz)		-	-	1.7	2.0
Attenuation (Reference level from 0dB)					
D.C ~ 380 MHz		dB	30	54	-
380 ~ 395 MHz		dB	20	32	-
412 ~ 430 MHz		dB	20	31	-
430 ~ 2000 MHz		dB	30	37	-
Temperature Coefficient of Frequency		ppm/℃	-36		

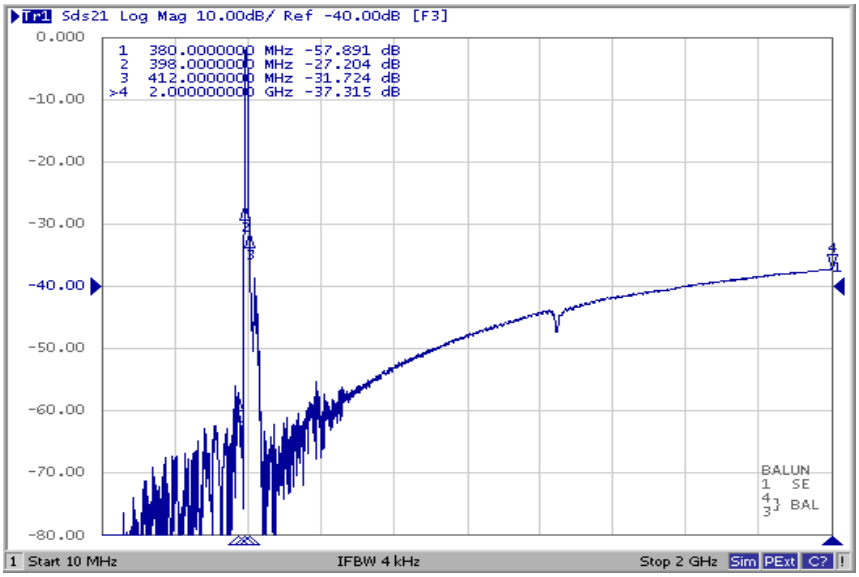
C. MEASUREMENT CIRCUIT:



D. FREQUENCY CHARATERISTIC:

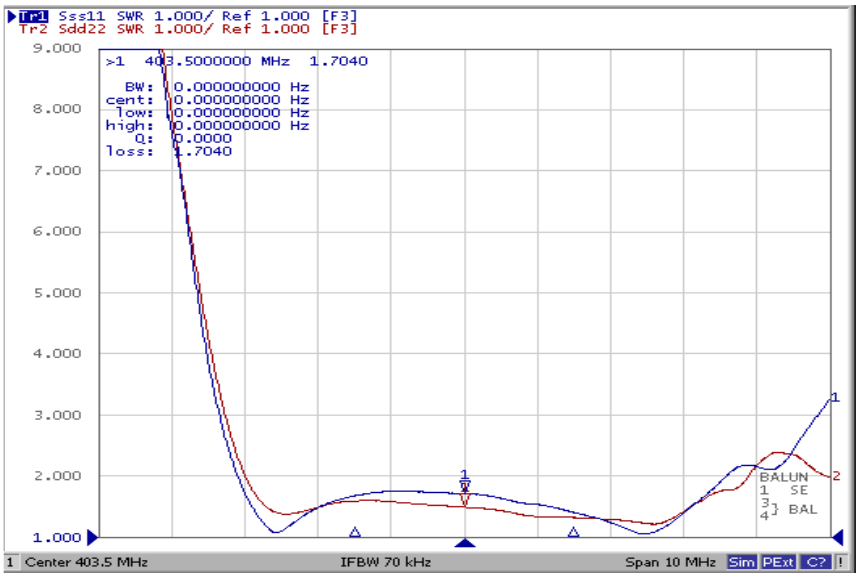




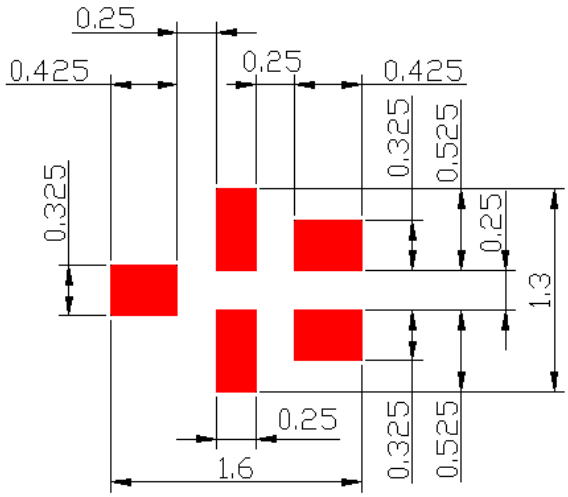


Reflection Functions:

VSWR



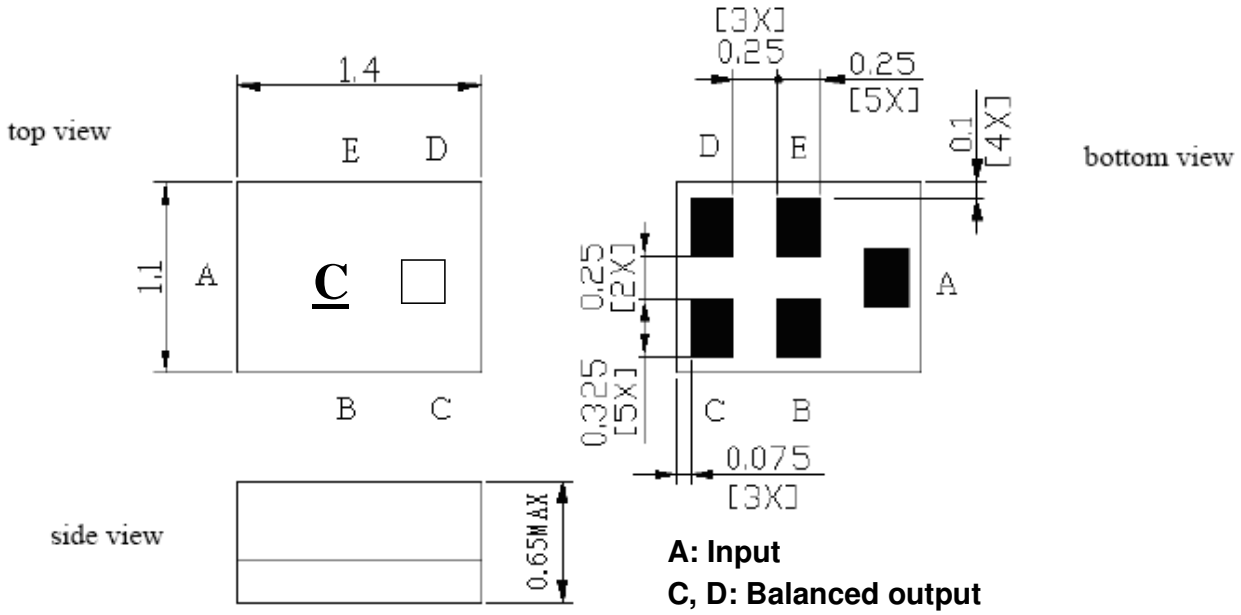
E. PCB Footprint:



: Land Pattern

Unit : mm

F. OUTLINE DRAWING:



A: Input

C, D: Balanced output

B, E: Ground

Unit: mm

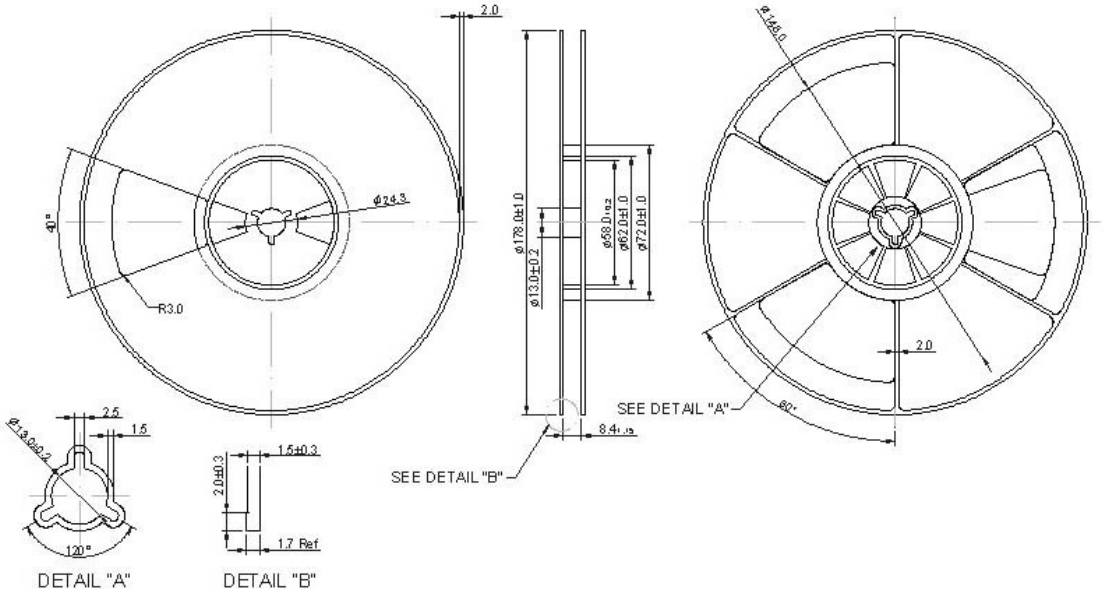
☐ : **Year/Month Code (Follow the table)**

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**

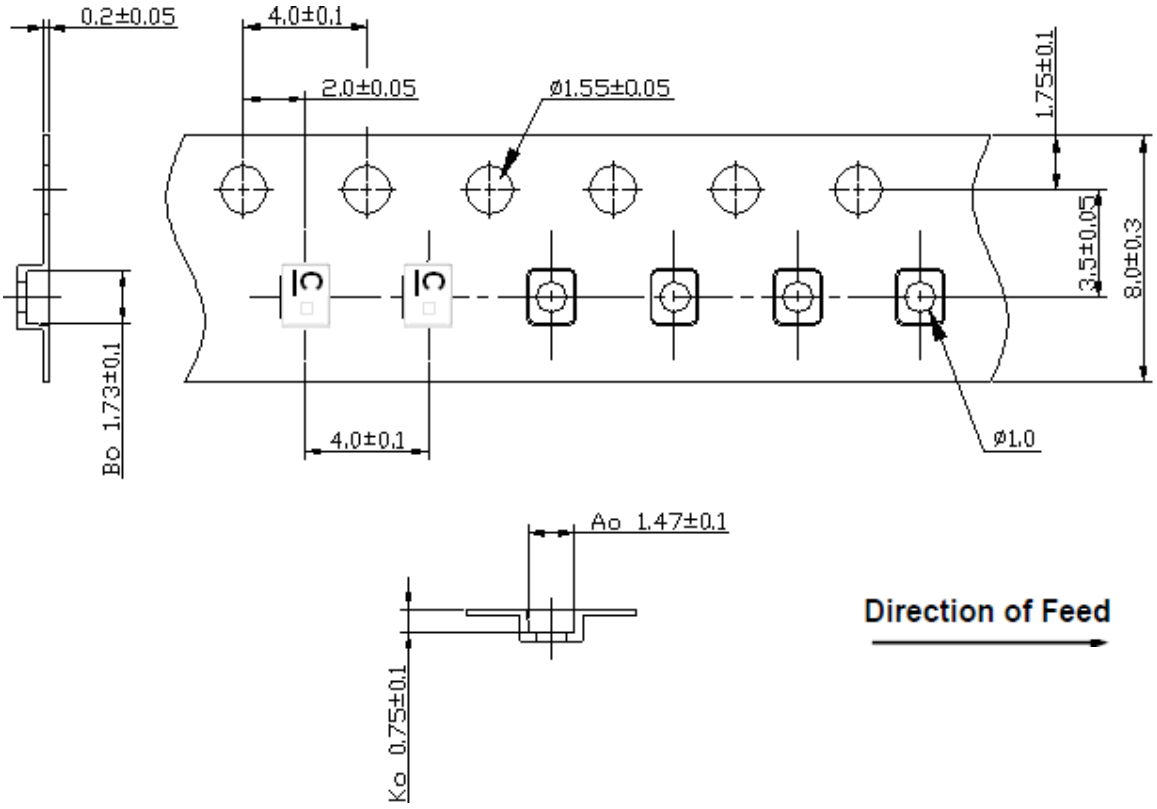
G. <u>PACKING</u>: (Ref: WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. <u>RECOMMENDED TEMPERATURE PROFILE OF REFLOW SOLDERING</u>:

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.

