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 836.5 MHz Band 5 Tx SMD 1.1×0.9 mm (BW = 25 MHz)

TST Parts No.: TA1692D

Customer Part No.:_____

Customer signature required

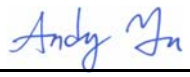
Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Michael Yang  _____

Approved by:_____ Andy Yu  _____

Date:_____ 2021/08/02 _____

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.

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

SAW Filter 836.5 MHz 25MHz BW SMD 1.1×0.9 mm

MODEL NO.: TA1692D REV. No.: 3.0

A. MAXIMUM RATING:

1. Maximum Input Power: 13 dBm
2. DC voltage: 0 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +100°C
5. ESD: 100V(MM) 200V(HBM)
6. Moisture Sensitive Level: Level 3 (MSL3)

RoHS Compliant
Lead-free soldering

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

B. ELECTRICAL CHARACTERISTICS:

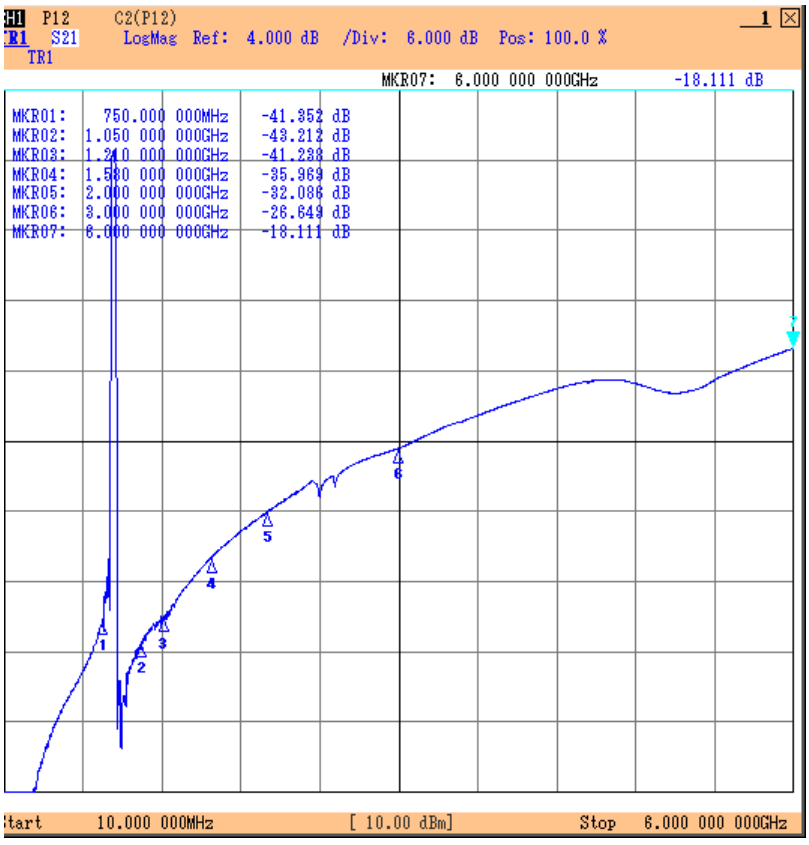
Source Impedance (single ended): 50Ω
Load Impedance (single ended): 50Ω

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	836.5	-
Insertion Loss (824 ~ 849 MHz)	dB	-	1.9	2.3
Amplitude Ripple within (824 ~ 849 MHz)	dB_{p-p}	-	0.8	1.3
VSWR (824 ~ 849 MHz)	-	-	2.0	2.3
Attenuation:				
DC ~ 750 MHz	dB	35	41	-
750 ~ 800 MHz	dB	28	35	-
869 ~ 894 MHz	dB	40	45	-
894 ~ 1050 MHz	dB	38	43	-
1050 ~ 1210 MHz	dB	35	41	-
1210 ~ 1580 MHz	dB	30	36	-
1580 ~ 2000 MHz	dB	28	32	-
2000 ~ 3000 MHz	dB	23	27	-
3000 ~ 6000 MHz	dB	12	18	-

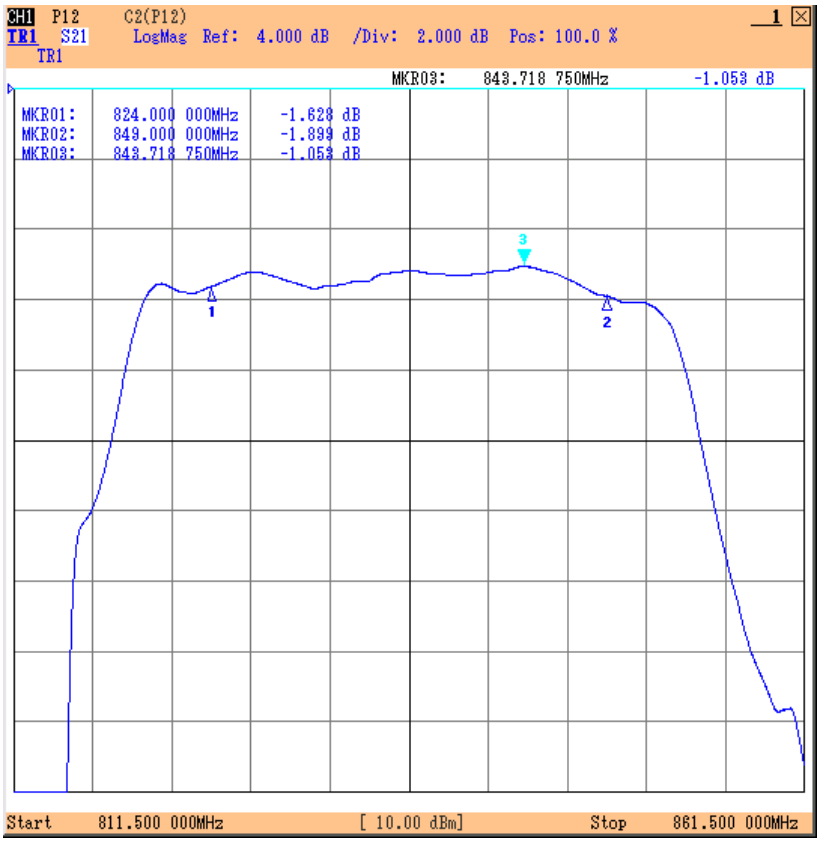
C. Frequency Characteristics :

S21dB Span 300 MHz

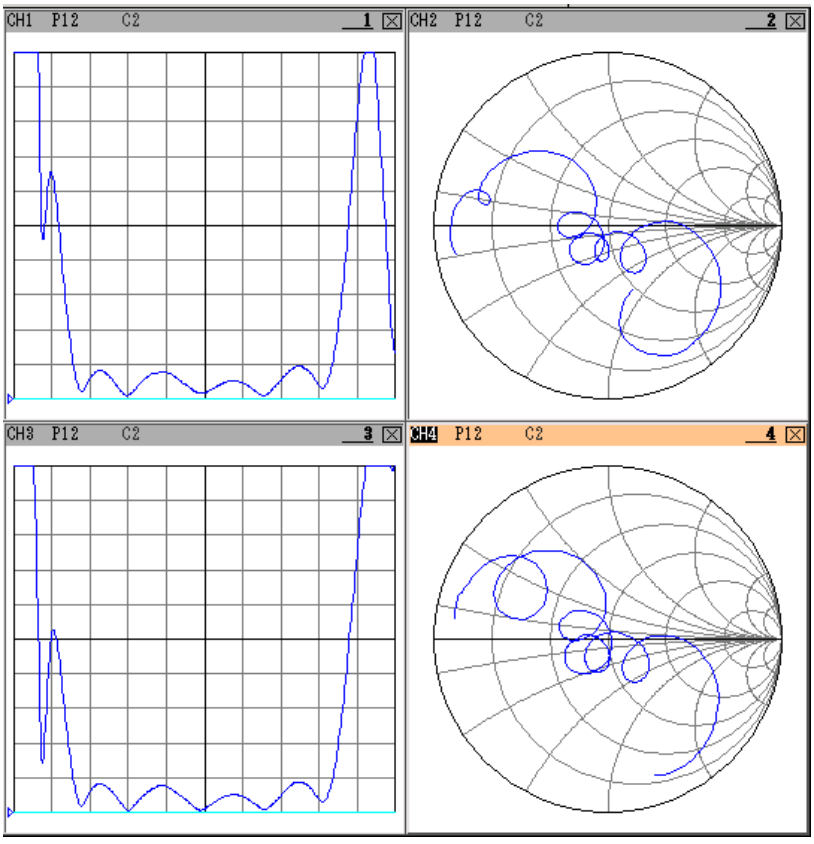
S21dB Span 6000 MHz



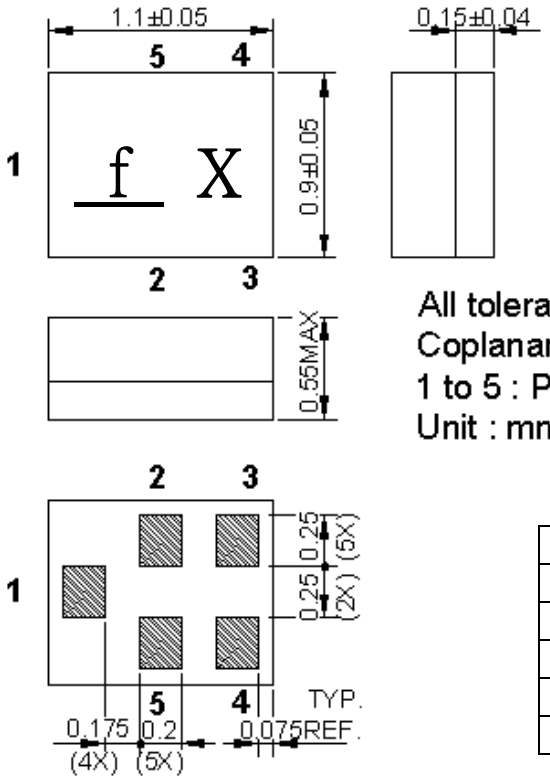
Ripple Span 50 MHz



Reflective Function



D. OUTLINE DRAWING:



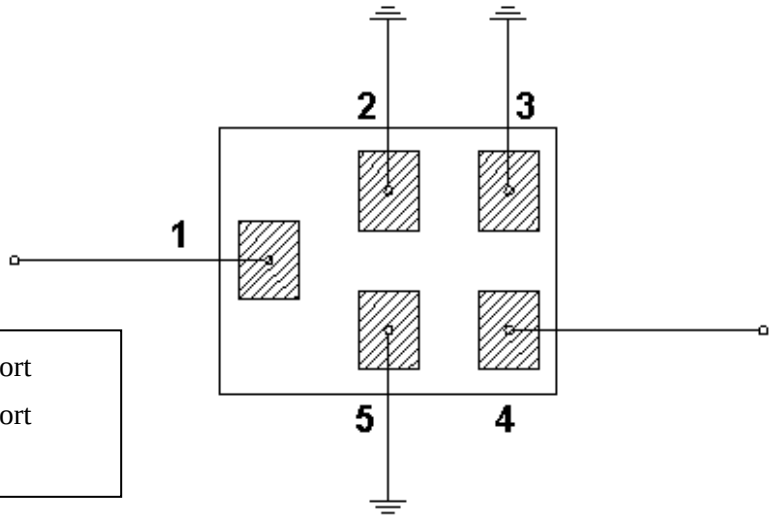
All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

X : Year/Month Code (Follow the table)

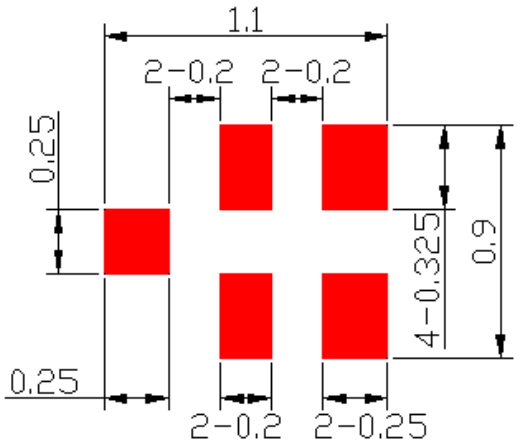
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2022	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2023	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2024	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2025	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2026	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2027	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2028	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

E. MEASUREMENT CIRCUIT:



(1): Unbalance Port
(4): Unbalance Port
Others: Ground

F. PCB FOOTPRINT:



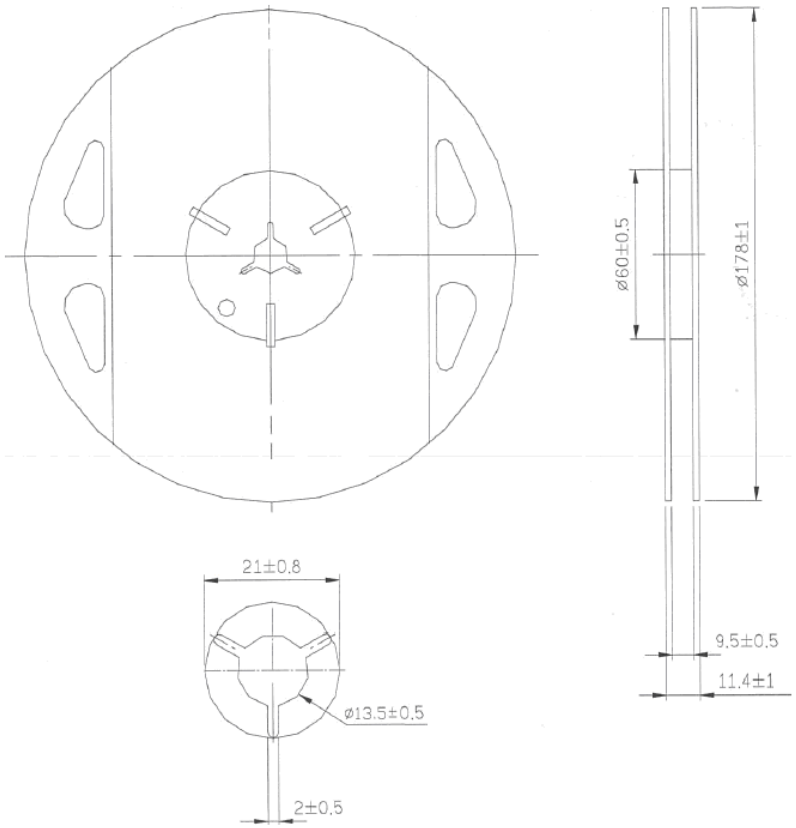
: Land Pattern

Unit: mm

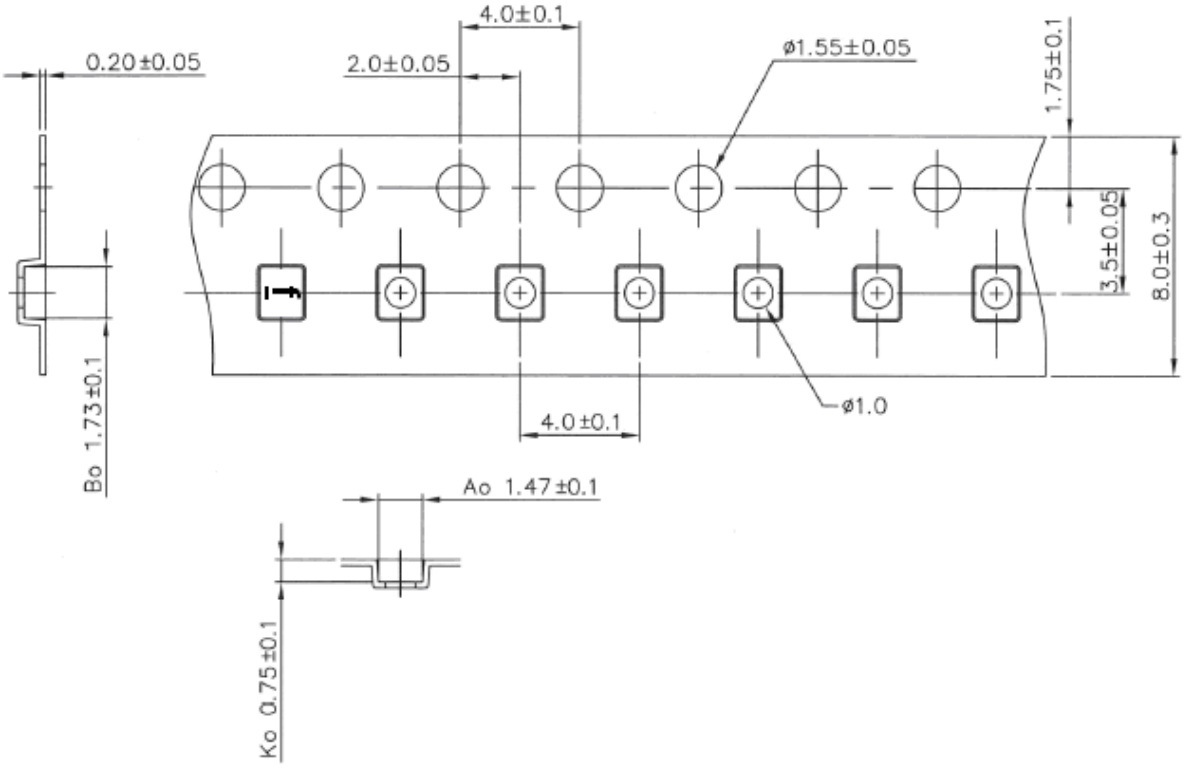
G. PACKING:

1. REEL DIMENSION

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



2.TAPE DIMENSION



Direction of Feed

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.