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 689.5 MHz (BW 53 MHz) CSP 1.4x1.1 mm

TST Part No.: TA2731AA1326

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Michael Yang _____

Approved by:_____ Andy Yu _____

Date:_____ 2021/07/01 _____

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 689.5 MHz (BW 53 MHz) CSP 1.4x1.1 mm
MODEL NO.:TA2731AA1326 REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 26 dBm
2. DC Voltage : 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level: Level 3 (MSL3)

RoHS Compliant
Lead-free soldering

Electrostatic Sensitive Device (ESD)

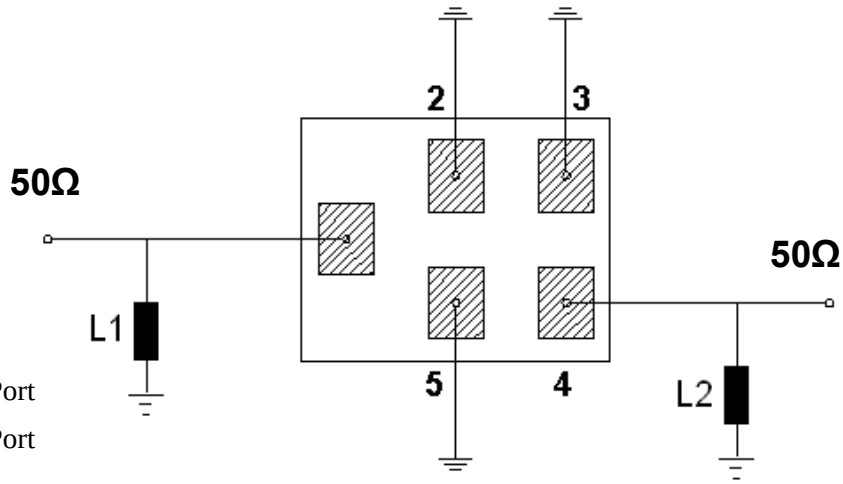
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: ZL = 50 Ω

Item	Unit	Min	Typ.	Max	
Center frequency	MHz	-	689.5	-	-
Insertion Loss (663 ~ 716 MHz)	dB	-	5.5	6.0	25±2℃
Amplitude Ripple (663 ~ 716 MHz)	dB	-	4.5	5.0	25±2℃
Attenuation (Reference level from 0 dB)					
657.5 MHz	dB	6	36	-	25±2℃
722 MHz	dB	6	39	-	25±2℃
Temperature coefficient of Frequency	ppm/K		-36		

C. MEASUREMENT CIRCUIT:

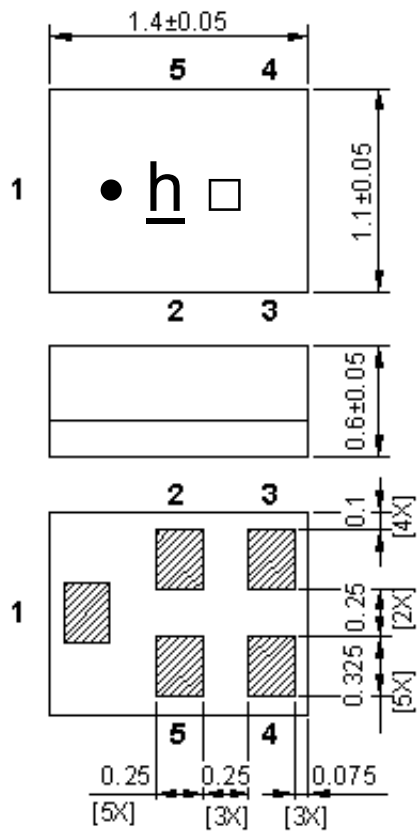
* By Network analyzer simulation matching with port extension



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

L1 = L2 = 10 nH

D.OUTLINE DRAWING:



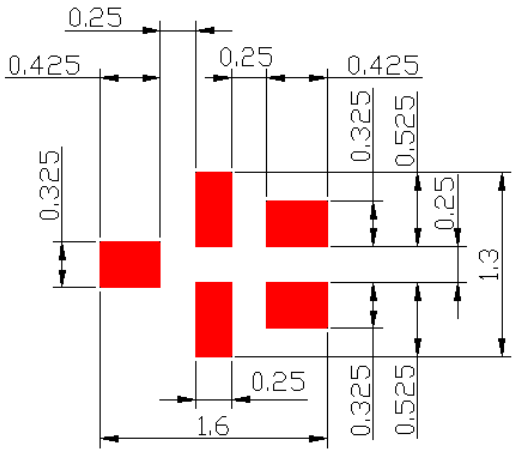
All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

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

□ : 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**

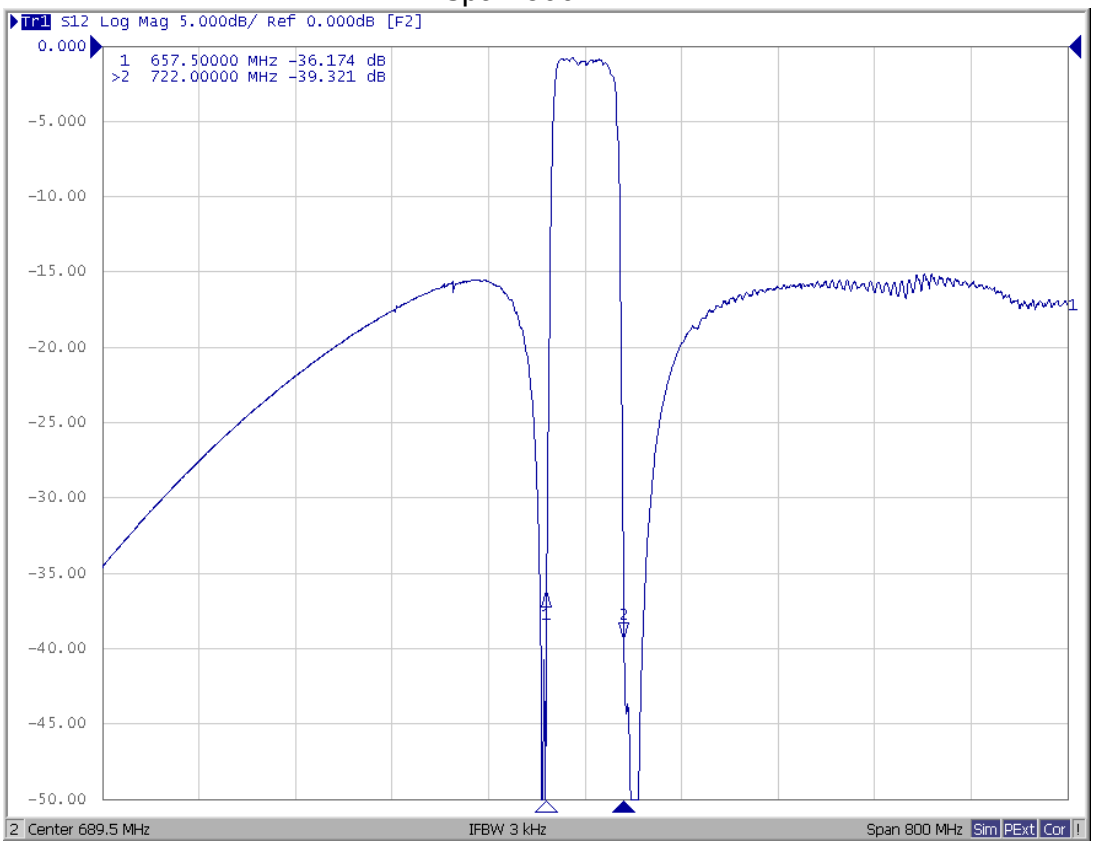
E. PCB Footprint:



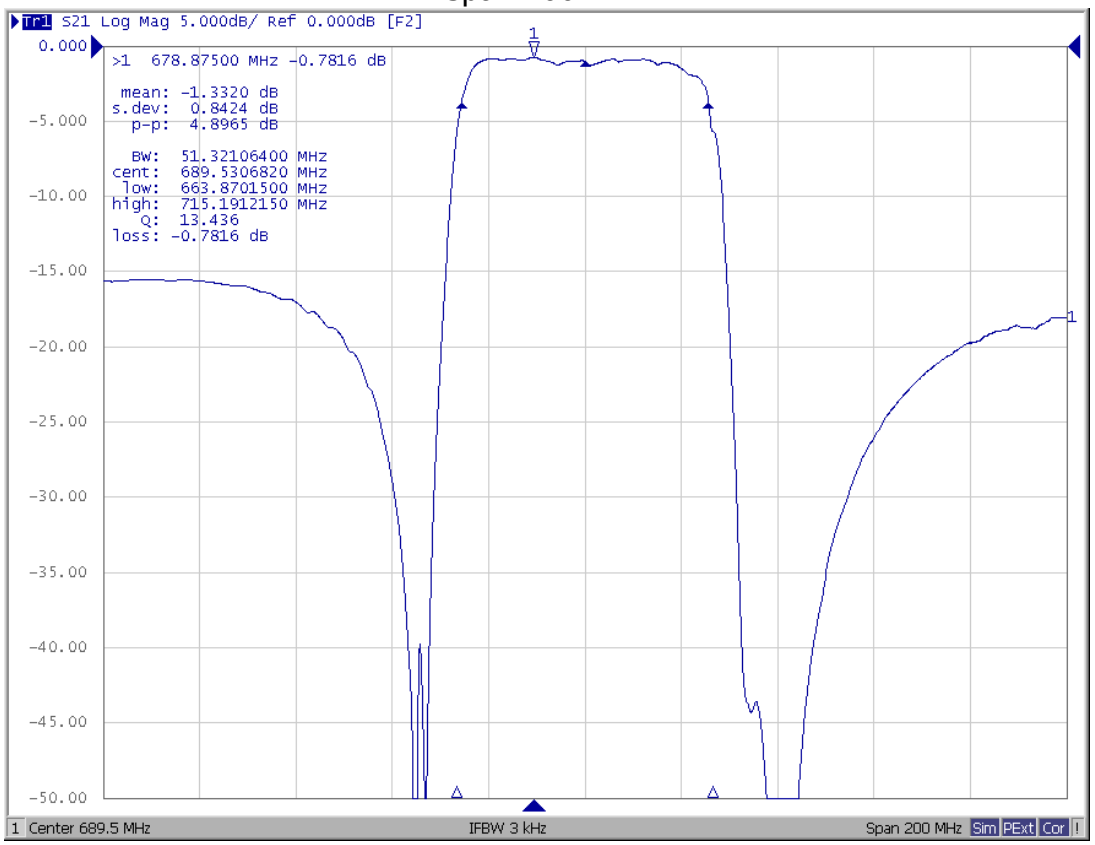
: Land Pattern
Unit : mm

F. Frequency Characteristics:

Span 800 MHz

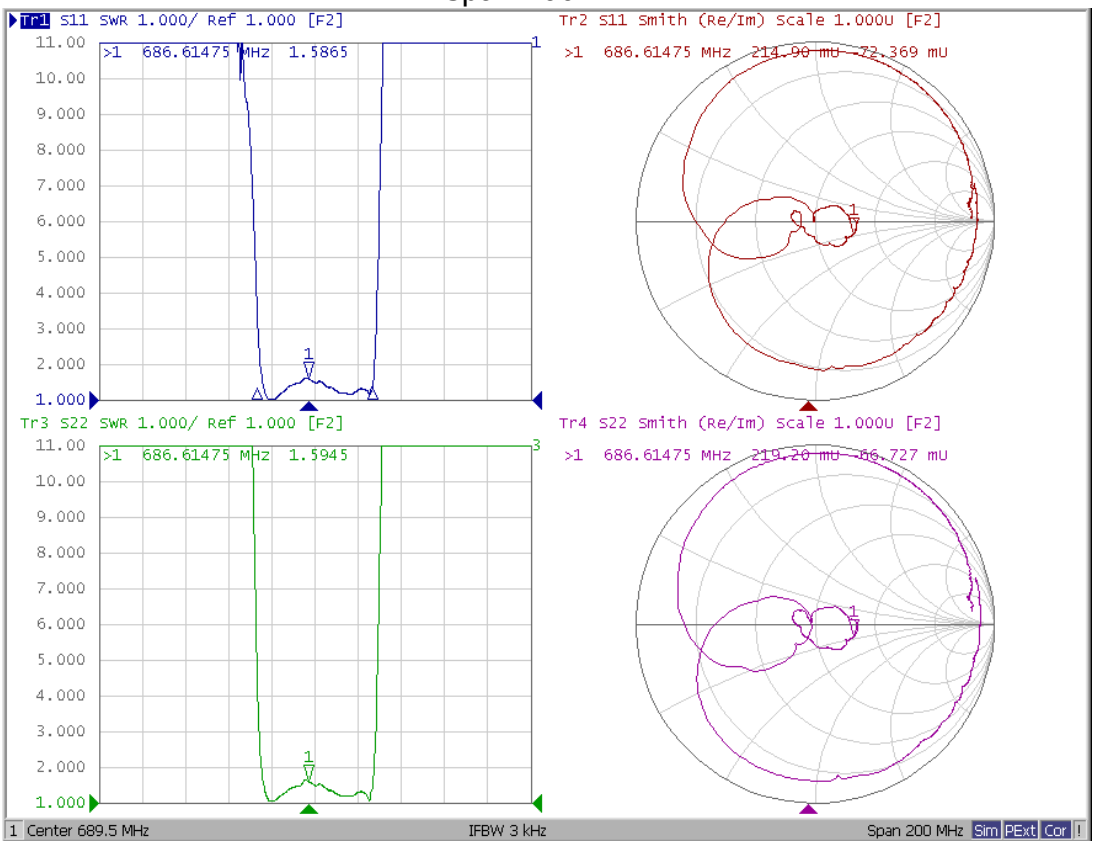


Span 200 MHz



Reflection Characteristic:

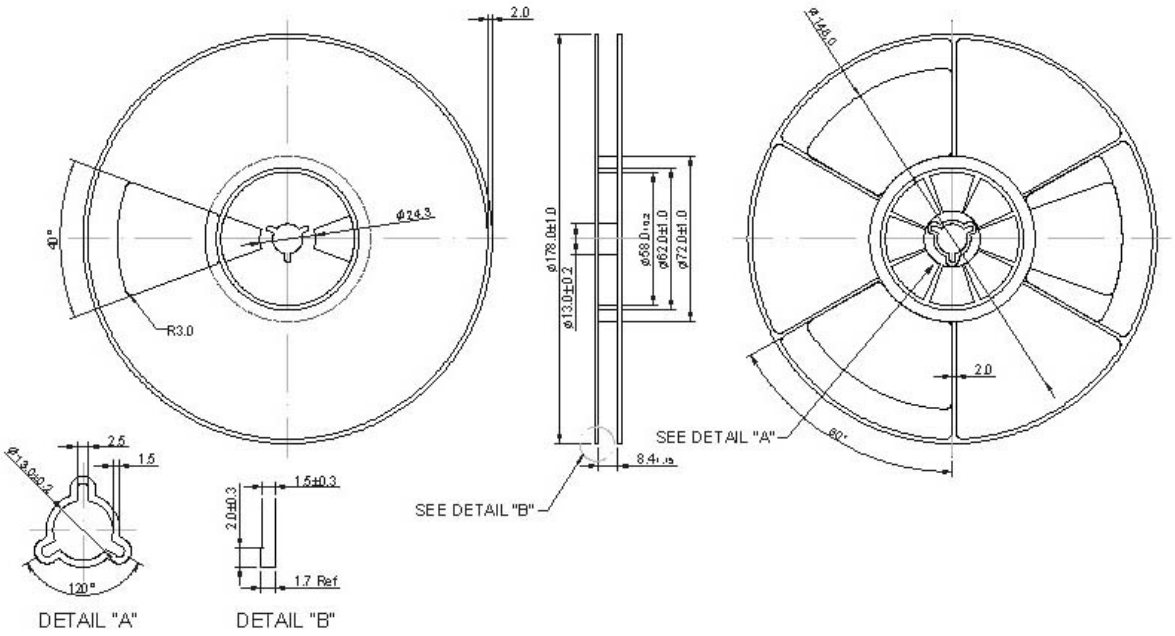
Span 200 MHz



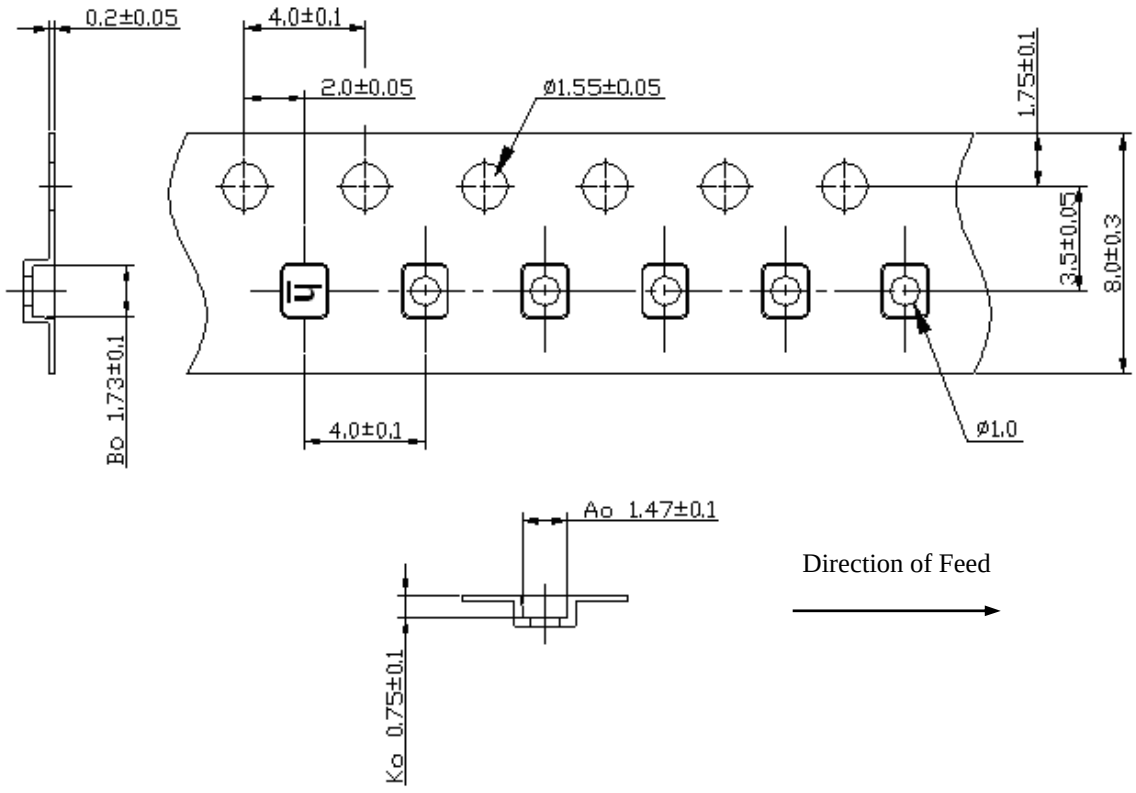
G. PACKING:

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.