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 782 MHz BW 10 MHz CSP 1.1x0.9 mm

TST Parts No.: TA2649A

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.

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SAW Filter 782 MHz BW 10 MHz CSP 1.1x0.9 mm

MODEL NO.: TA2649A REV. No.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -30°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:

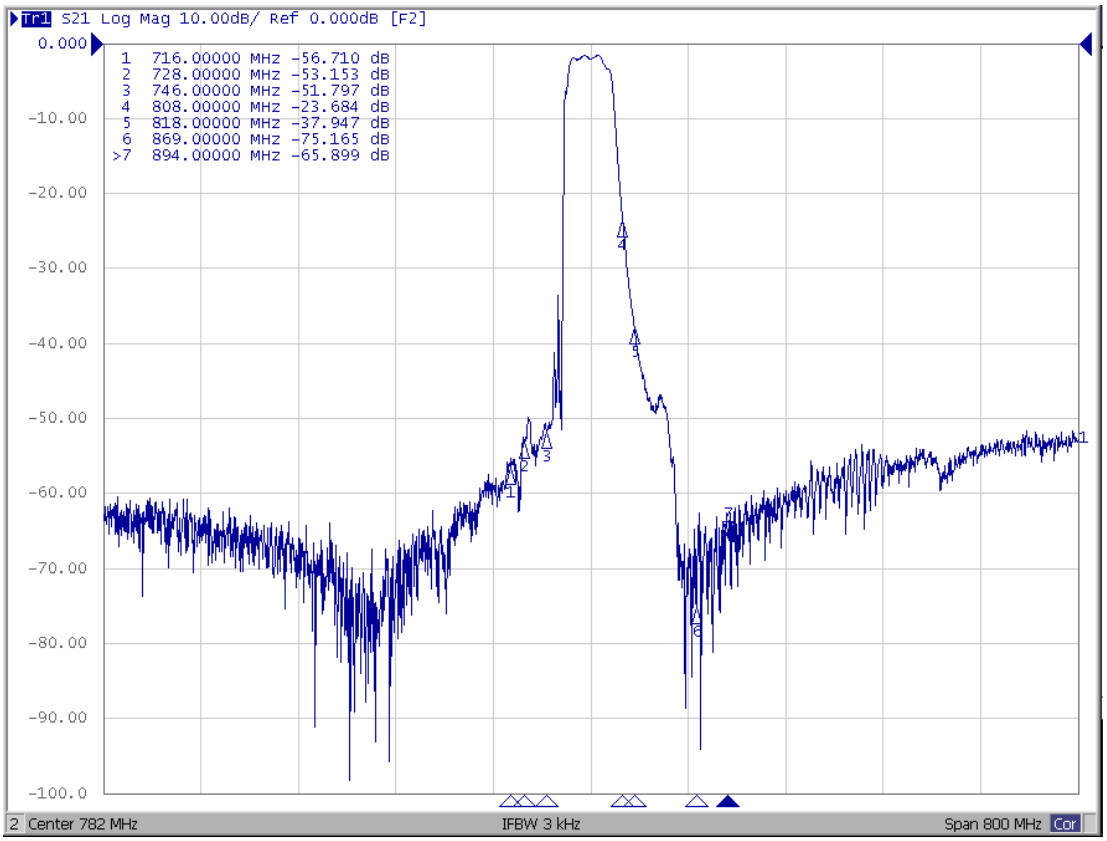
Terminating source impedance: Zs = 50 Ω

Terminating load impedance: Z_L = 50 Ω

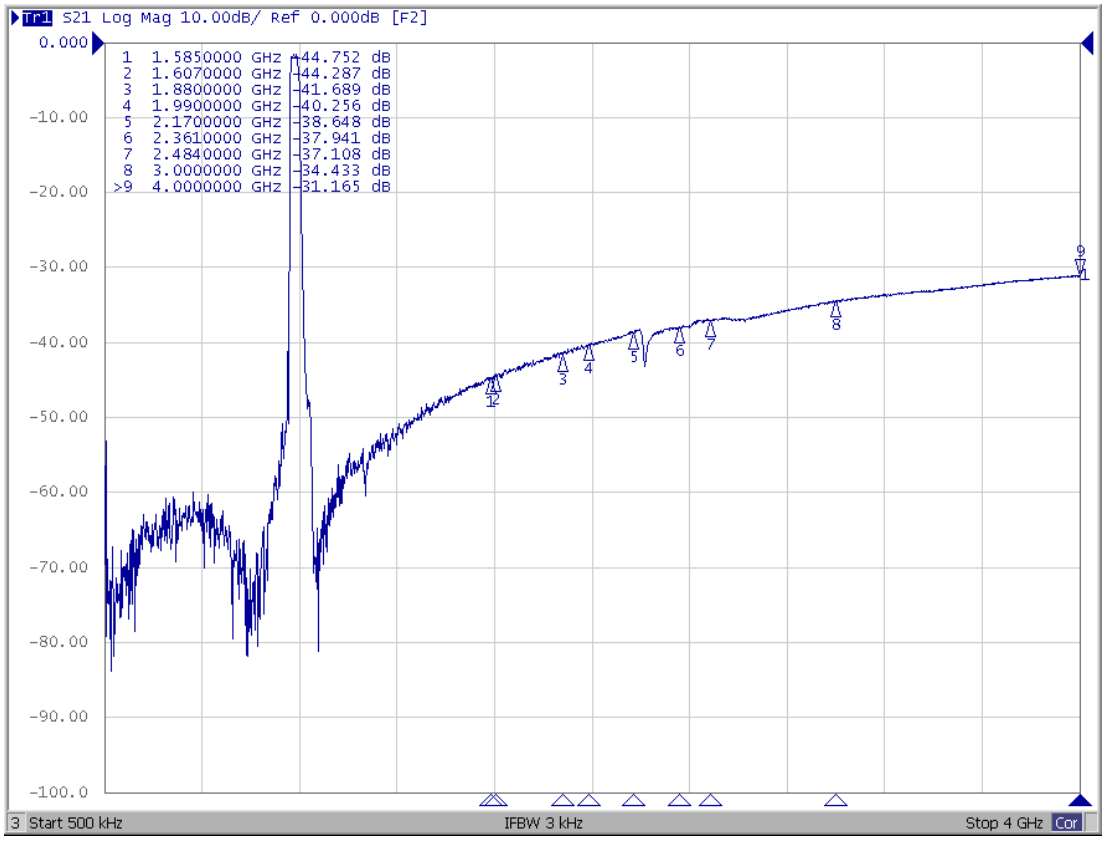
Item	Unit	Min.	Type.	Max.
Center Frequency	MHz	-	782	-
Insertion Loss (777 ~ 787MHz)	dB	-	2.0	3.0
Amplitude ripple (777 ~ 787MHz)	dB	-	0.5	1.5
VSWR (777 ~ 787MHz)	-	-	1.7	2.2
Attenuation				
10 ~ 716 MHz	dB	45	56	-
716 ~ 728 MHz	dB	45	53	-
728 ~ 746 MHz	dB	45	50	-
746 ~ 756 MHz	dB	40	48	-
808 ~ 818 MHz	dB	16	24	-
869 ~ 894 MHz	dB	40	66	-
1554 ~ 1607 MHz	dB	35	44	-
1805 ~ 1990 MHz	dB	30	40	-
2110 ~ 2170 MHz	dB	30	39	-
2400 ~ 2484 MHz	dB	30	38	-
2484 ~ 3000 MHz	dB	25	34	-
3000 ~ 4000 MHz	dB	20	31	-
Temperature Coefficient of Frequency	ppm/C^o	-	-36	-

C. Frequency Characteristics:

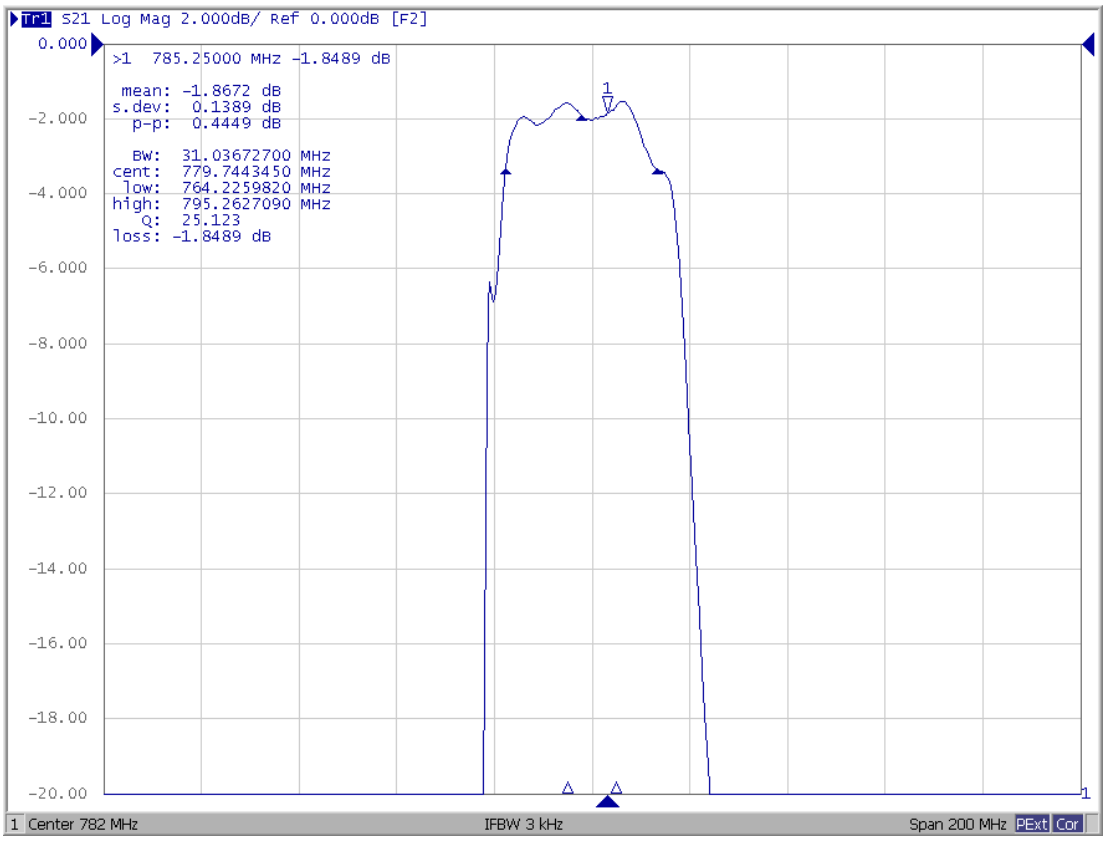
Span 800 MHz



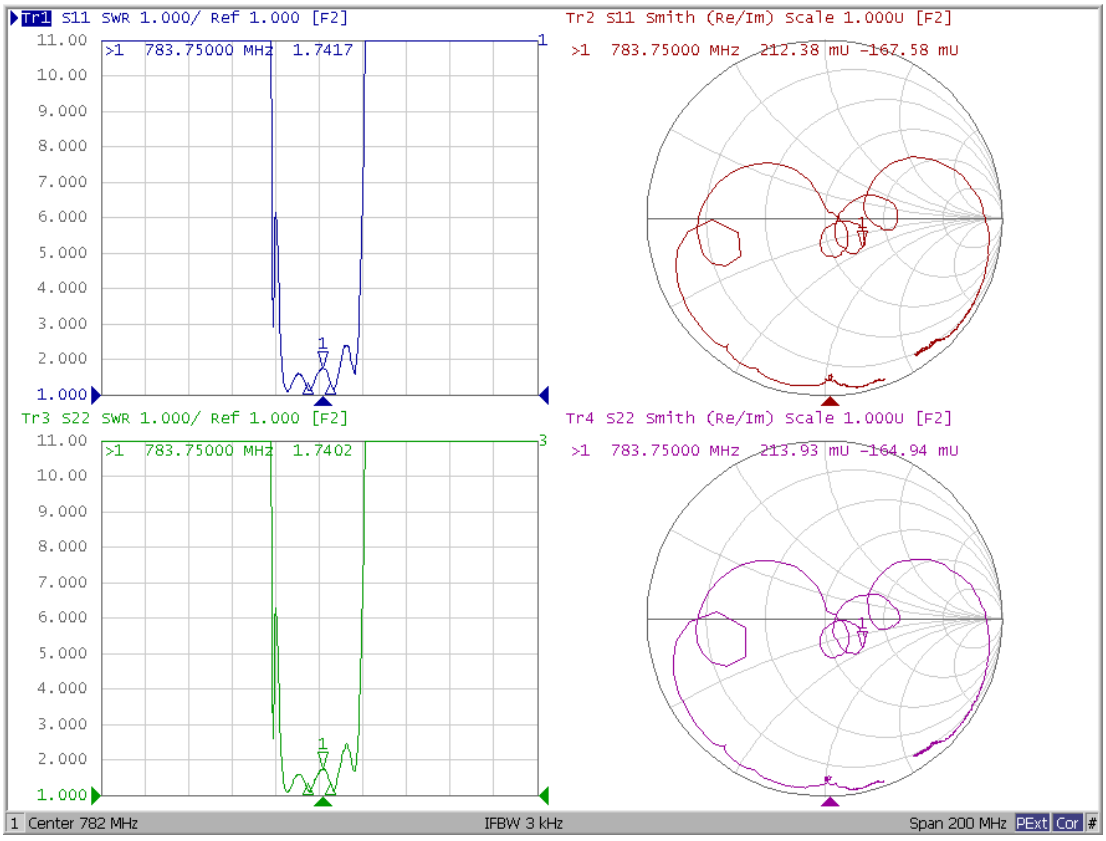
Span 8000 MHz



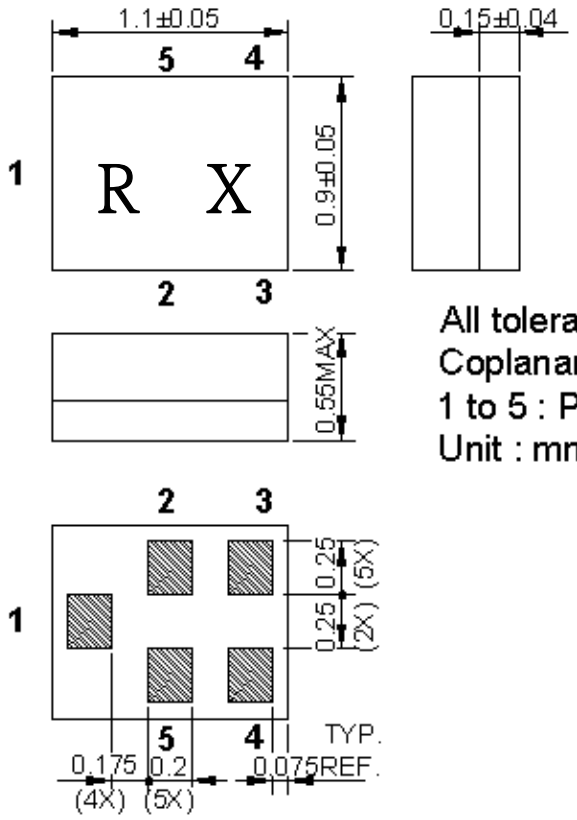
Ripple Span 200 MHz



Reflective Characteristic



D. OUTLINE DRAWING:



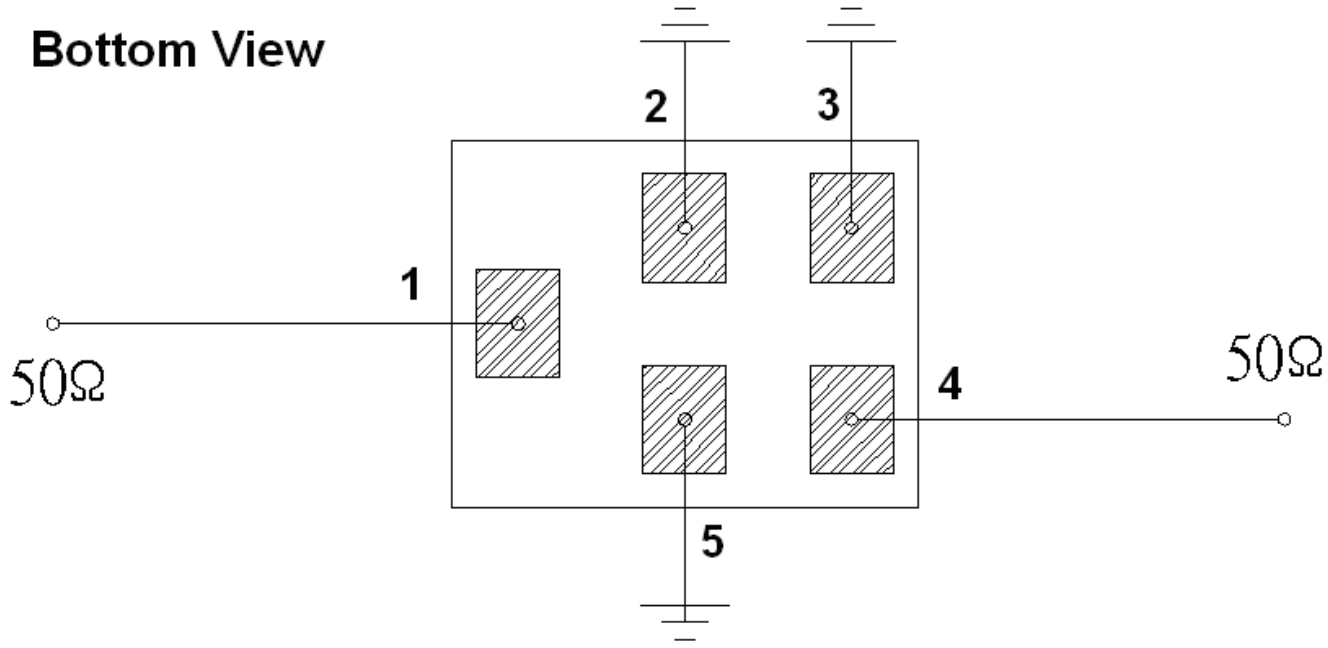
Marking Descriptions	
R	Series Number
X	Date Code(Year+Month)

Pin Description	
2, 3, 5	Ground
1	Input
4	Output

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**	**g**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

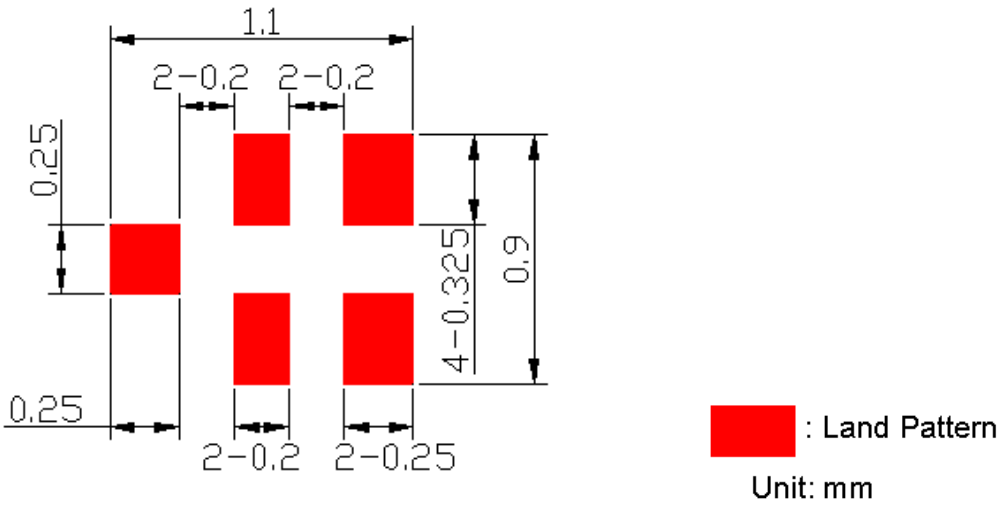
E. MEASUREMENT CIRCUIT:



Source Impedance: 50 Ω

Load Impedance: 50 Ω

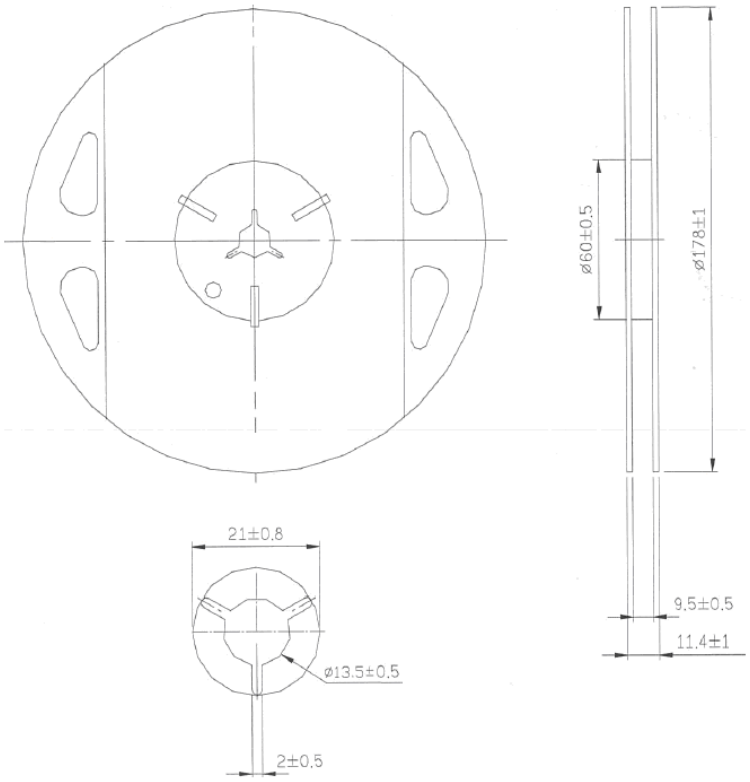
F. PCB Footprint:



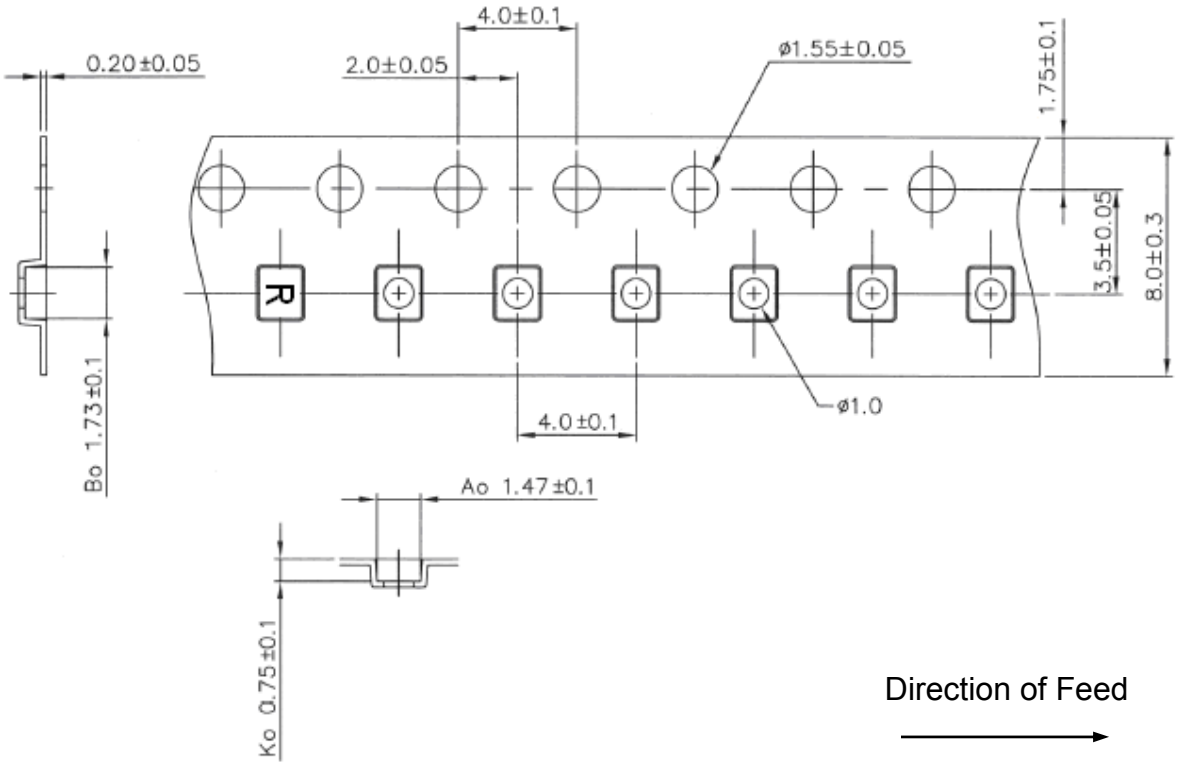
G. PACKING:

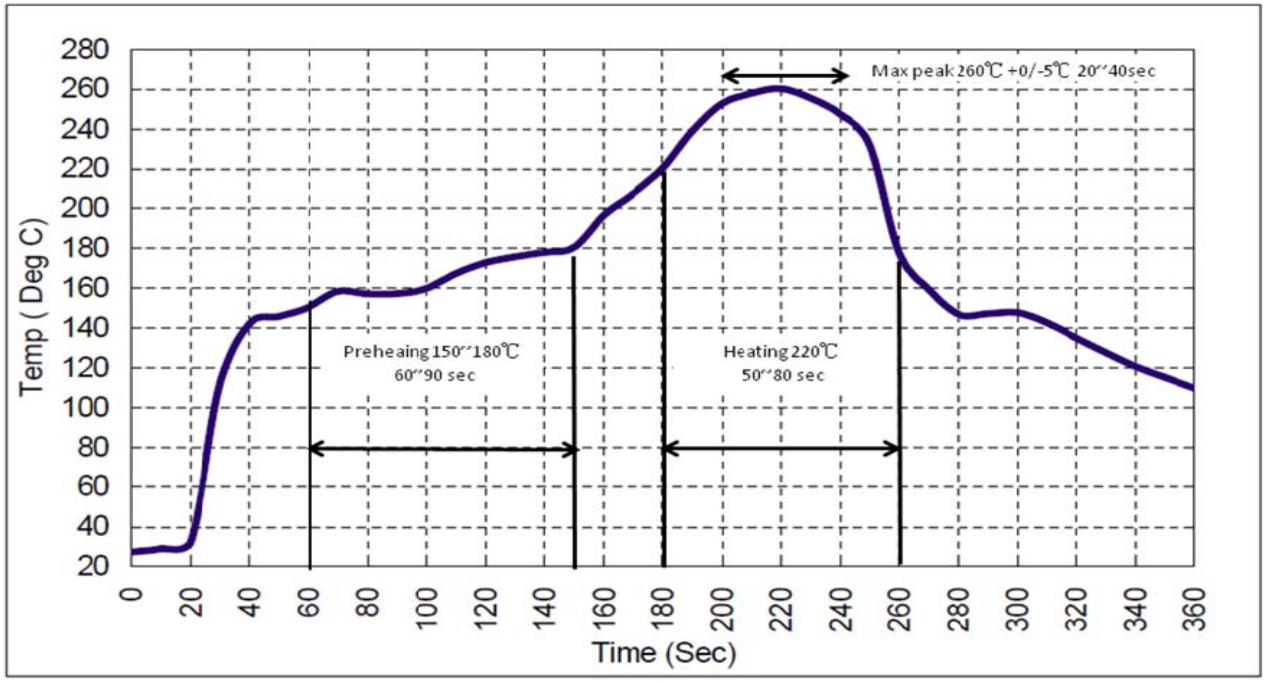
1. REEL DIMENSION

(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.