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 677.5 MHz SMD 1.4 x 1.1mm

TST Part No.: TA2384A

Customer Part No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Sam Lin

Approved by: Andy Yu

Date: 2018/07/11

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 677.5MHz SMD 1.4X1.1 mm (BW=26MHz)

MODEL NO.:TA2384A REV. NO.:1.0

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -20℃ to +70℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitive Level: Level 3 (MSL3)

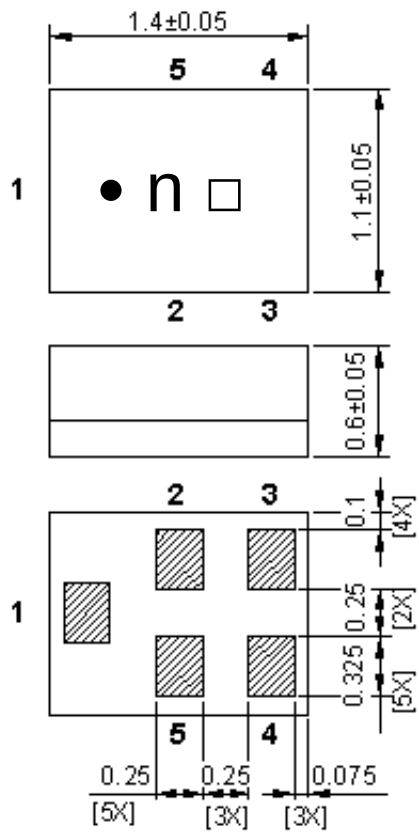
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : Zs = 50 Ω

Terminating load impedance : Z_L = 50 Ω

Item	Unit	Min.	Type.	Max.
Center Frequency	MHz	-	677.5	-
Insertion Loss (664.5 ~ 690.5 MHz)	dB	-	1.7	3.5
Amplitude ripple (664.5 ~ 690.5 MHz)	dB	-	1.2	2.2
VSWR (664.5 ~ 690.5 MHz)	-	-	2.0	2.5
Attenuation				
DC ~ 540 MHz	dB	30	33	-
540 ~ 655 MHz	dB	10	12	-
705 ~ 715 MHz	dB	8	12	-
715 ~ 815 MHz	dB	10	12	-
815 ~ 3000 MHz	dB	20	25	-
Temperature Coefficient of Frequency	ppm/C^o	-	-36	-

C.OUTLINE DRAWING:



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

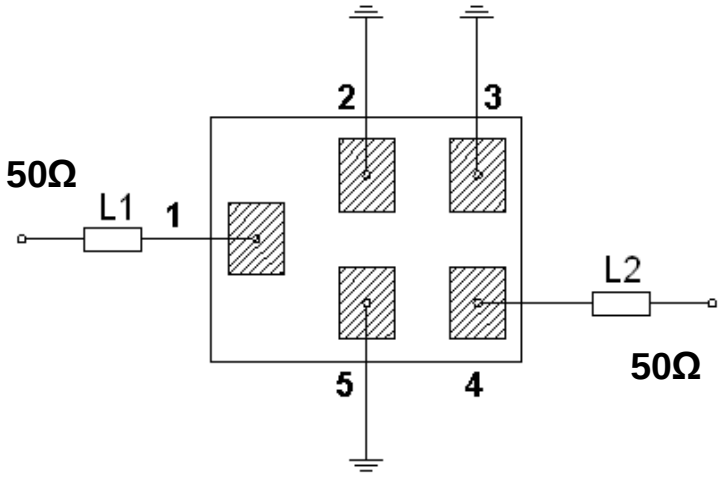
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
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**

D. MEASUREMENT CIRCUIT:

* By Network analyzer simulation matching with port extension



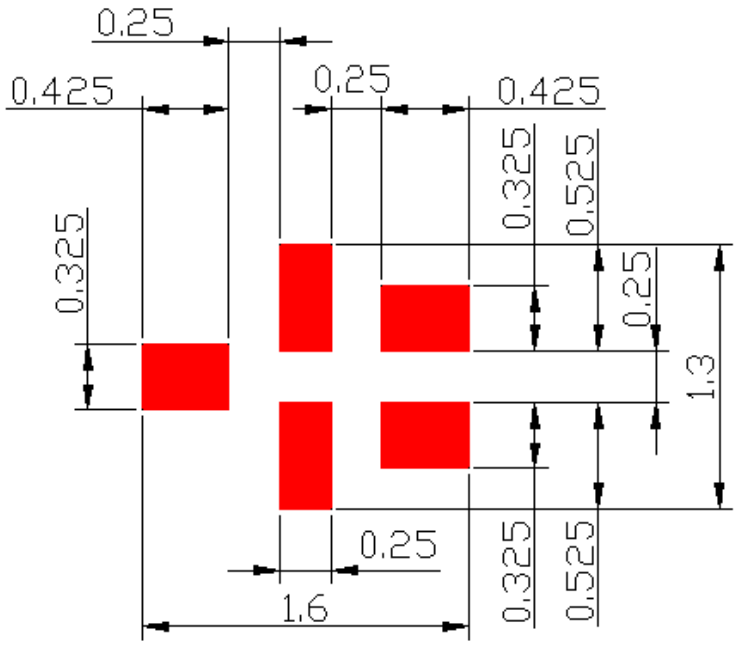
(1): Unbalance Port

(4): Unbalance Port

Others: Ground

L1 = L2 = 10 nH

E. PCB Footprint:

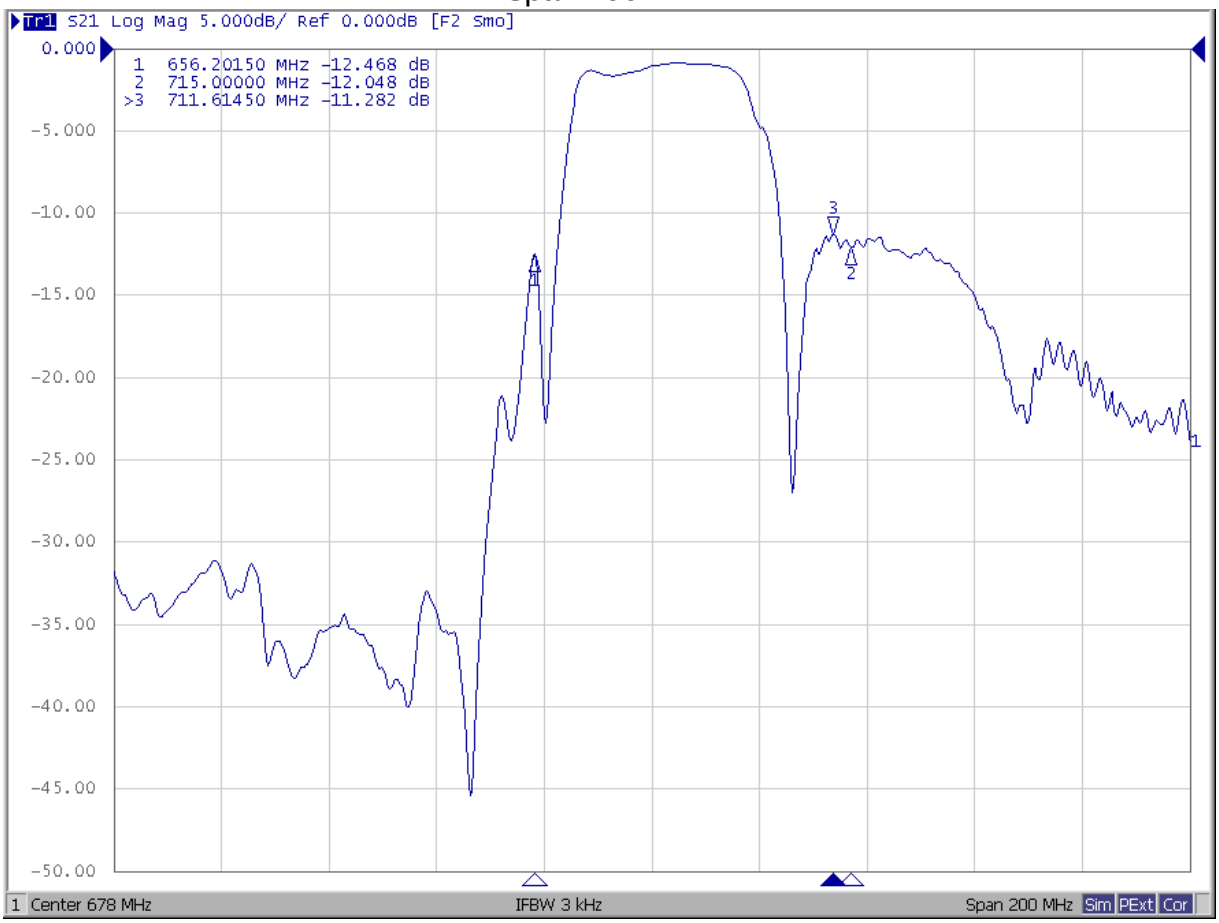


: Land Pattern

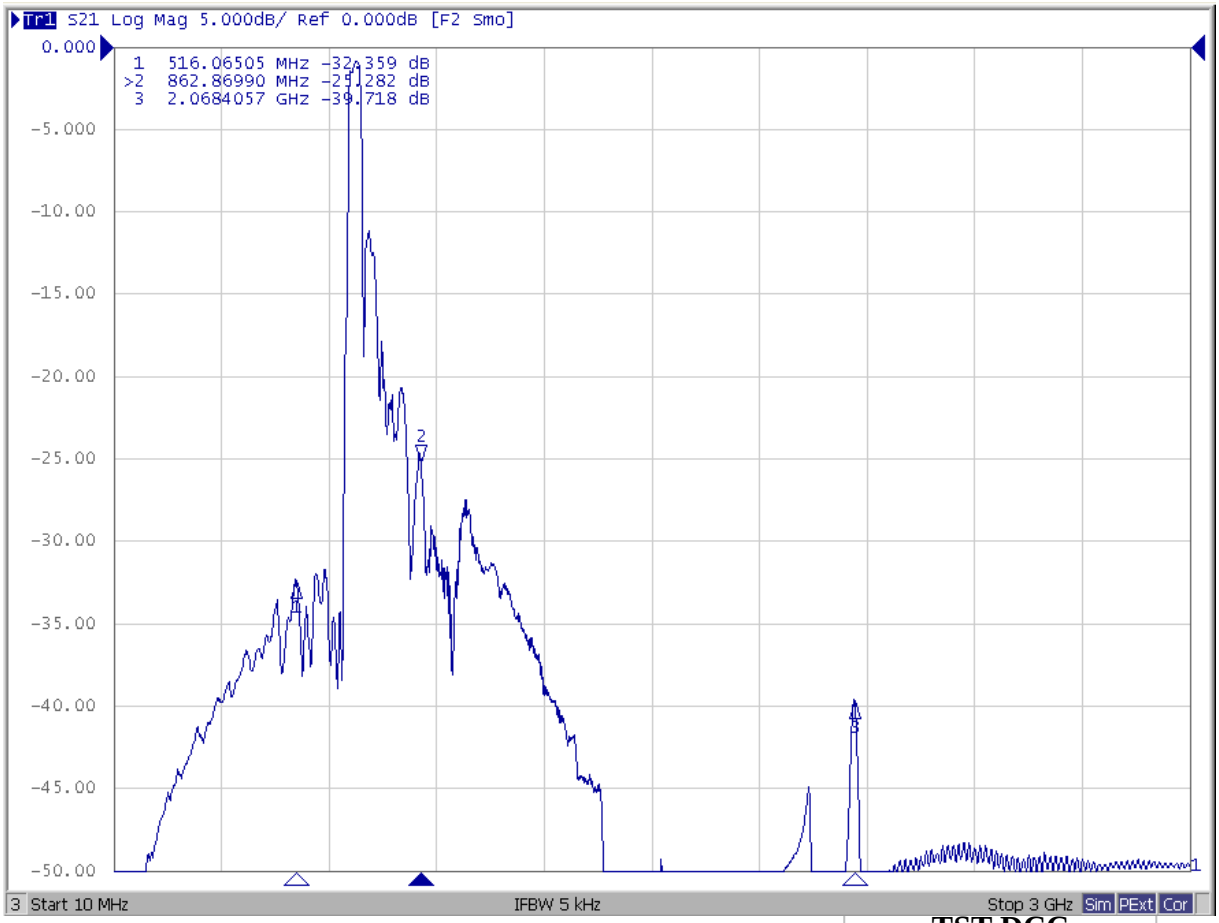
Unit : mm

F. Frequency Characteristics :

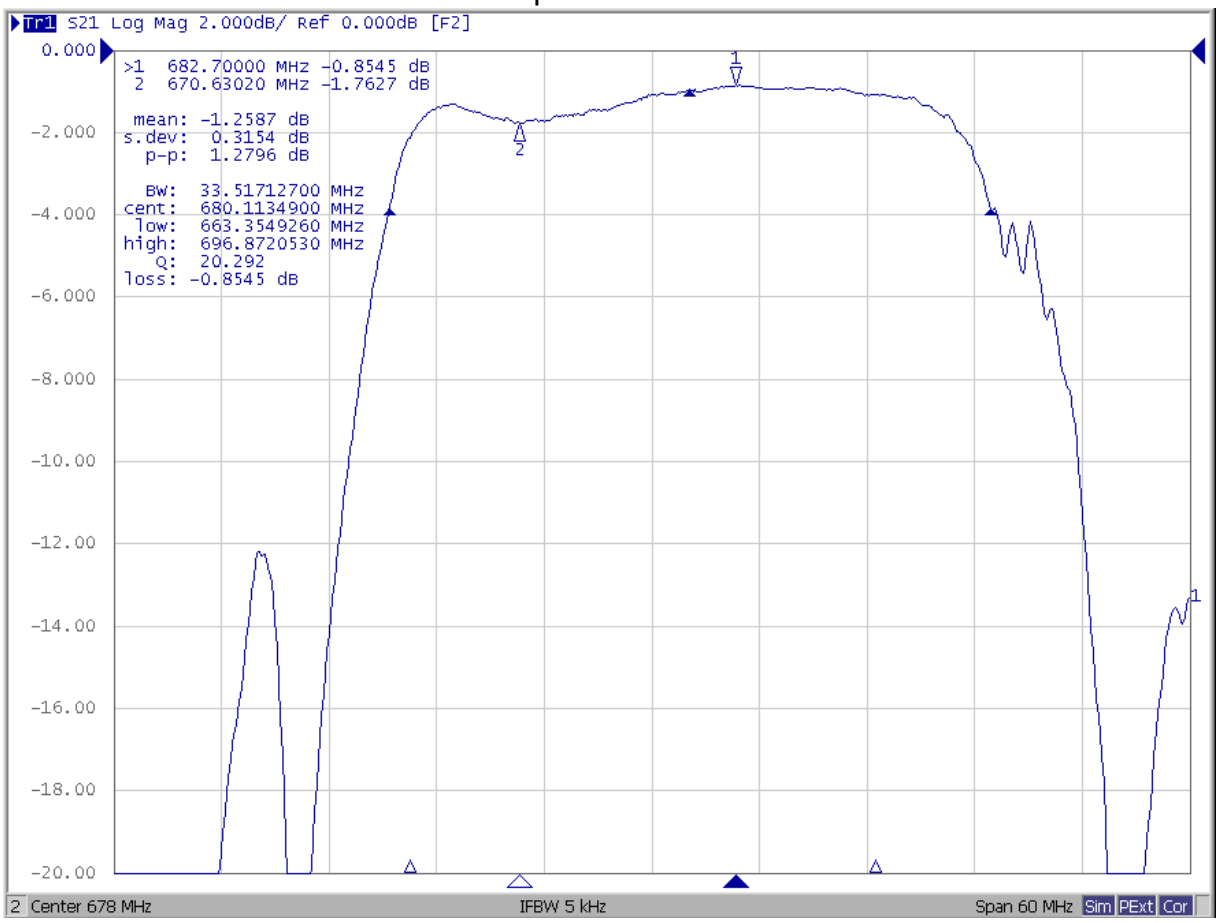
Span 200 MHz



Span 3000 MHz

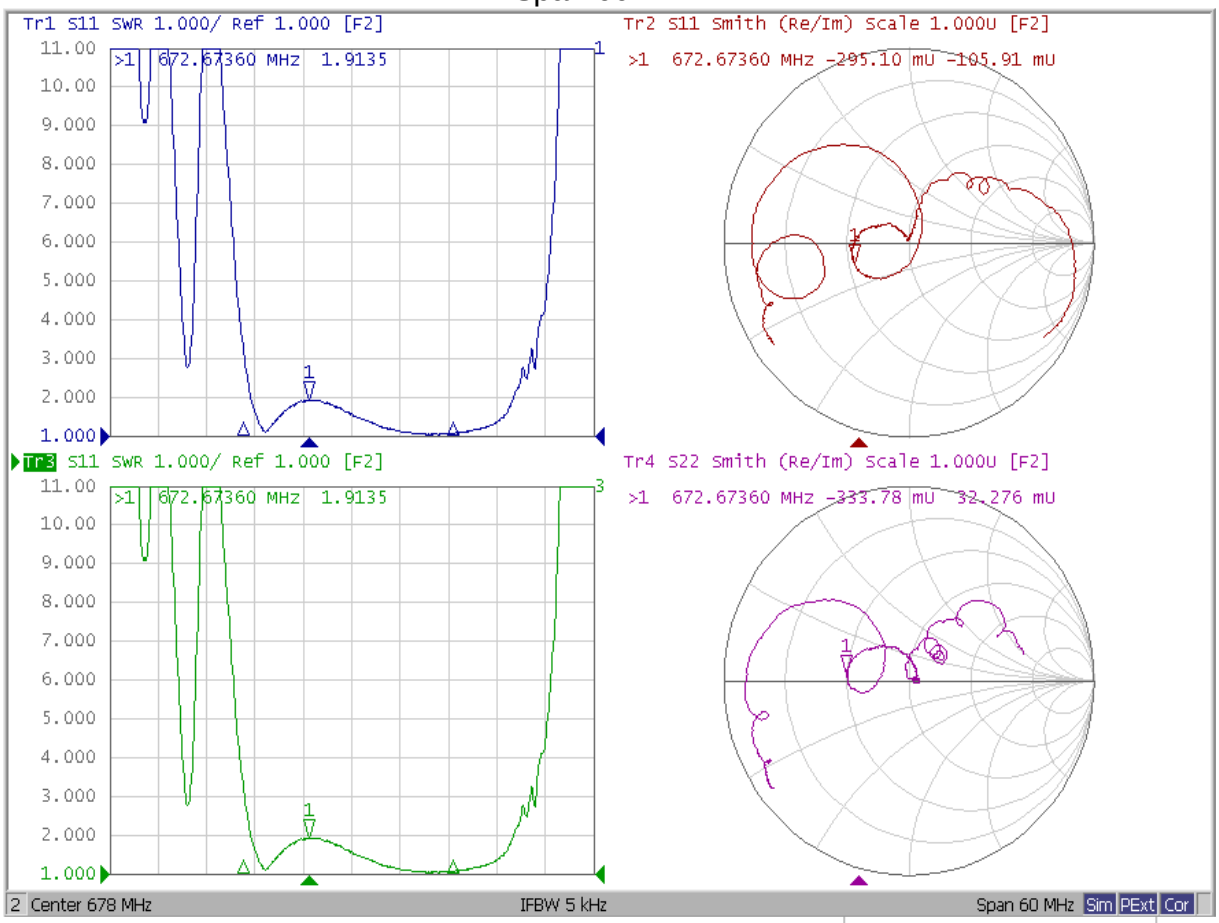


Span 60 MHz



Reflection Functions :

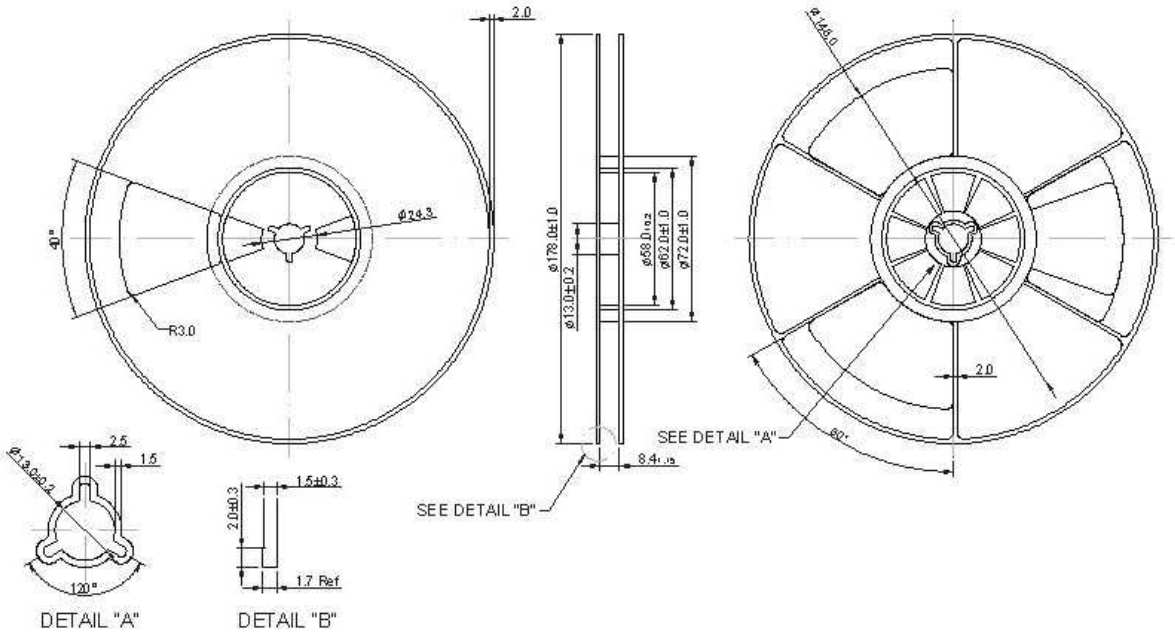
Span 60 MHz



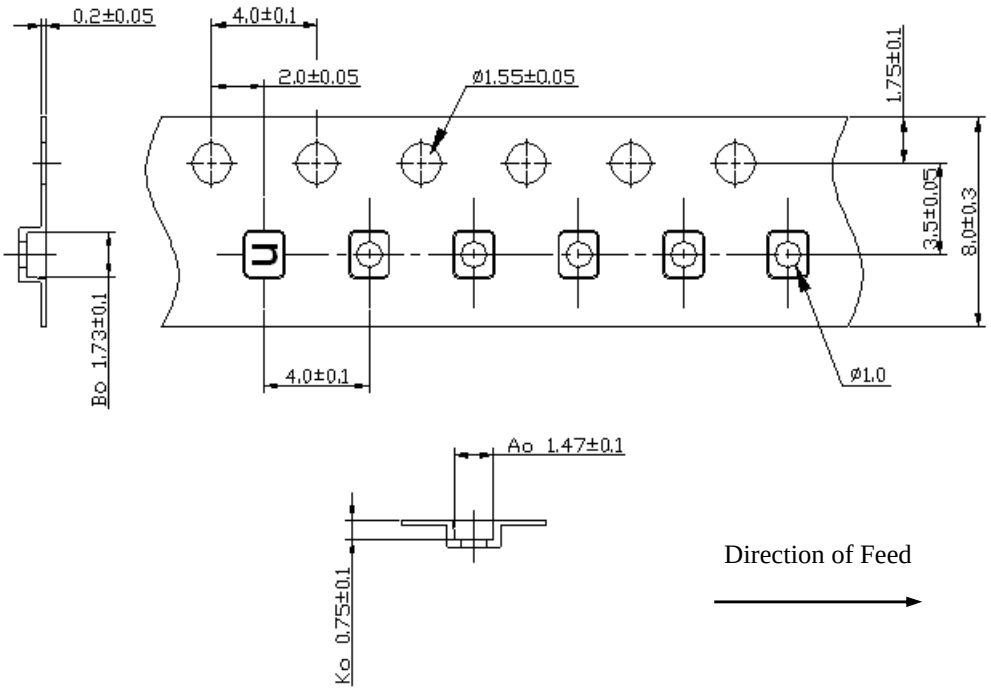
G. PACKING:

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.

