



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 1221.5 MHz CSP 1.1×0.9 mm

TST Parts No.: TA2600A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approved by: _____ Andy Yu *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 1221.5 MHz CSP 1.1×0.9 mm

MODEL NO.: TA2600A

REV. No.:2.0

A. MAXIMUM RATING:

1. Maximum Input Power: 15 dBm
2. DC voltage: 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
6. Moisture Sensitive Level: Level 3 (MSL3)



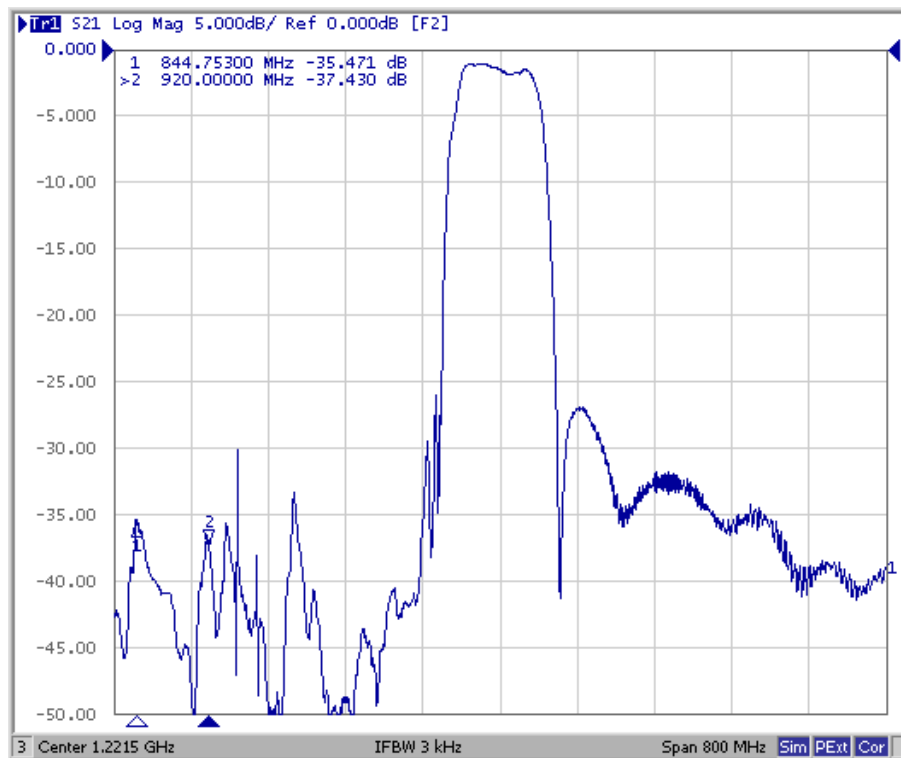
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

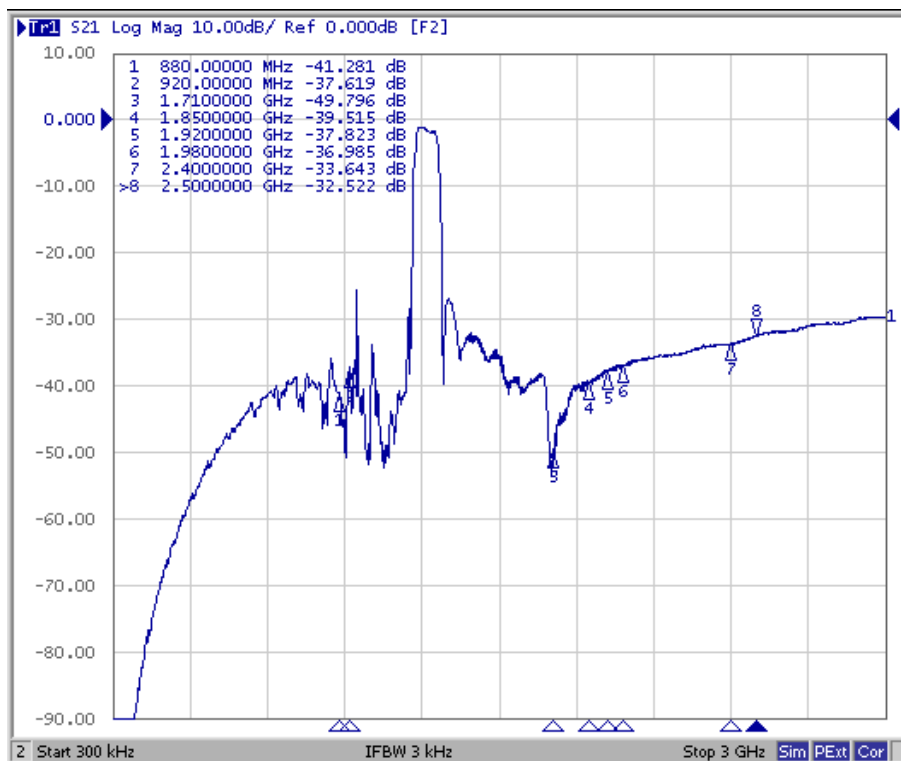
Item	Unit	Min.	Typ.	Max.
Center frequency	MHz	-	1221.5	-
Insertion Loss (1189 ~ 1254 MHz)				
At -40°C to +85°C	dB	-	1.8	2.6
At -40°C to +105°C	dB	-	1.8	2.8
Group Delay Ripple (Max-Min)				
1197 ~ 1217 MHz	ns	-	3	5
1217 ~ 1237 MHz	ns	-	1	5
1242 ~ 1249 MHz	ns	-	3.5	5
Return Loss (1197 ~ 1249 MHz)	dB	8	10	-
Attenuation (reference level from 0 dB)				
880 ~ 920 MHz	dB	30	35	-
1710 ~ 1850 MHz	dB	25	40	-
1850 ~ 1920 MHz	dB	25	38	-
1920 ~ 1980 MHz	dB	25	37	-
2400 ~ 2500 MHz	dB	25	32	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

C. Frequency Characteristics :

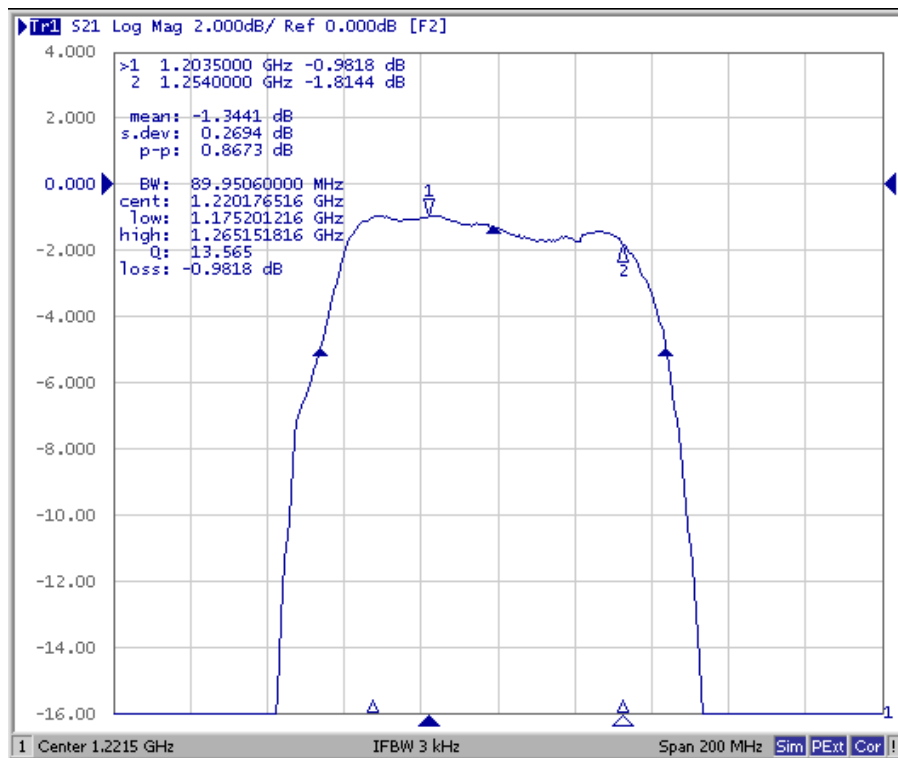
Span 800 MHz



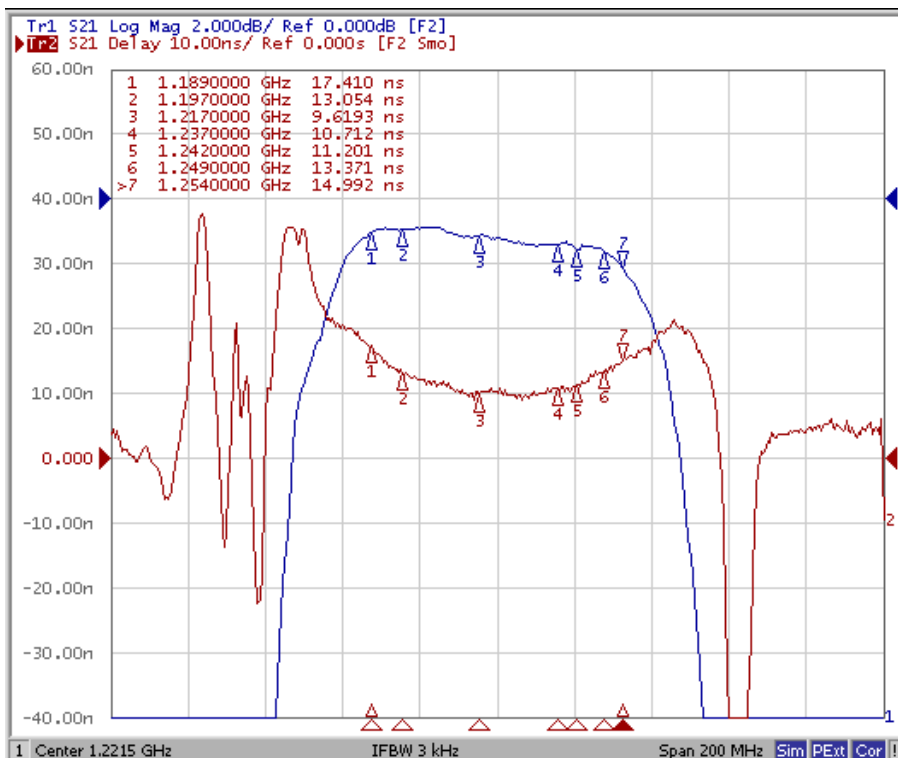
Span 3000 MHz



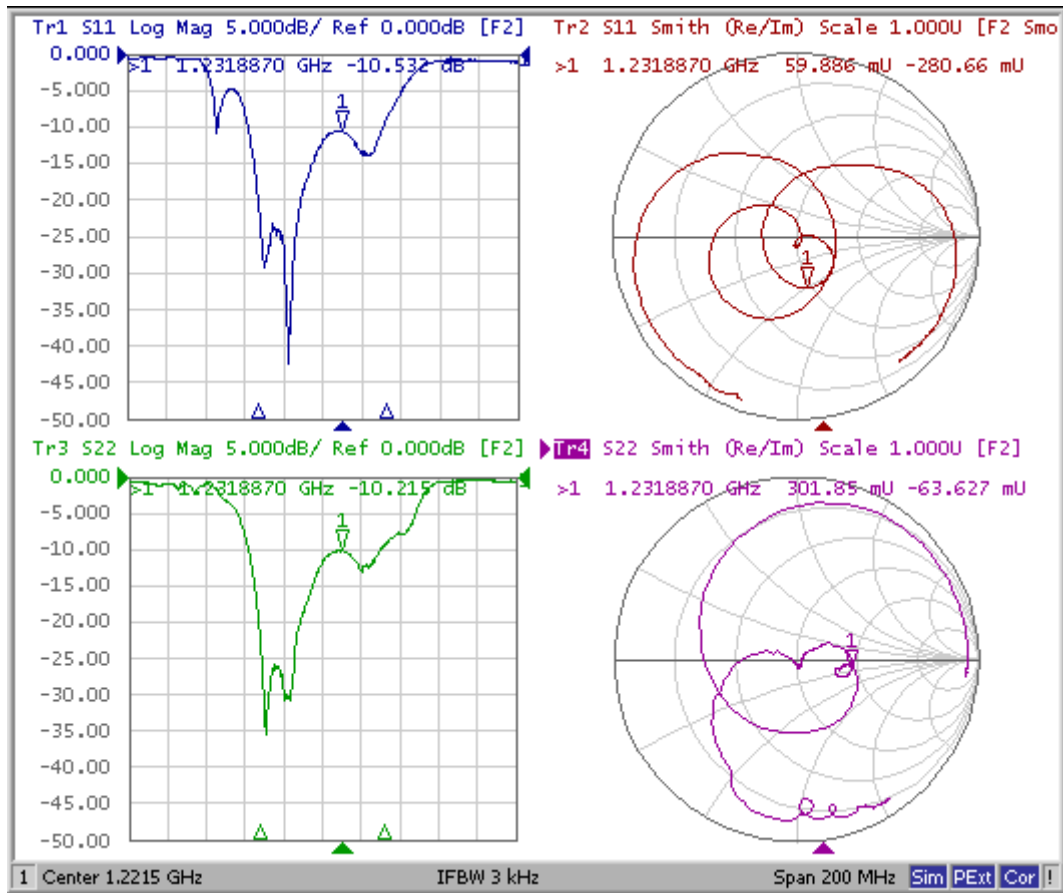
Span 200 MHz



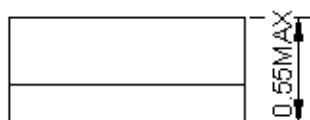
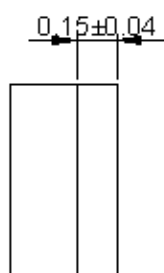
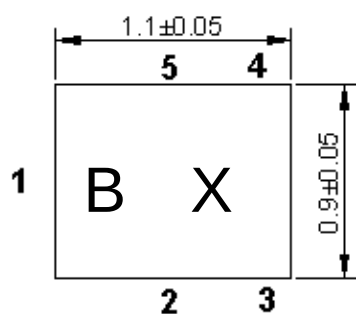
Group Delay



Reflective Characteristic



D. OUTLINE DRAWING:

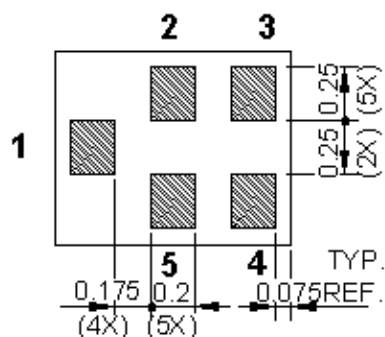


All tolerances are ± 0.05 mm unless otherwise specified

Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm



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

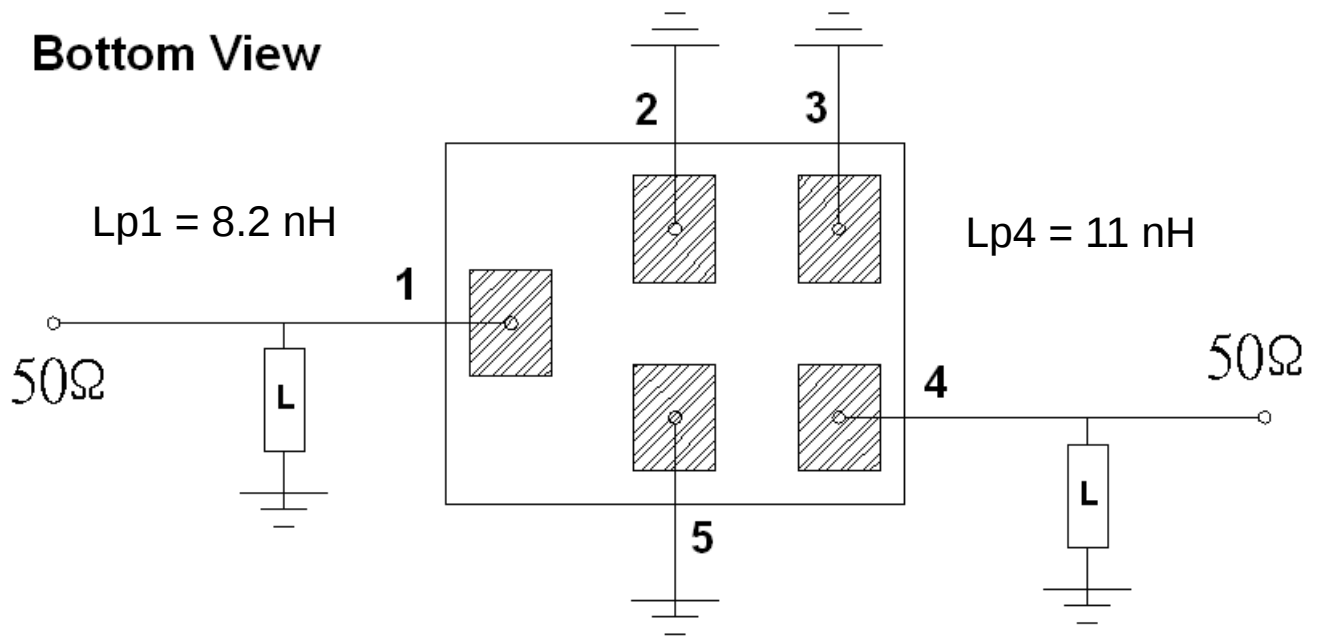
Pin Description	
2, 3, 5	Ground
1	Input
4	Output

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	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2027	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>l</u>	<u>m</u>
2028	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

E. MEASUREMENT CIRCUIT:

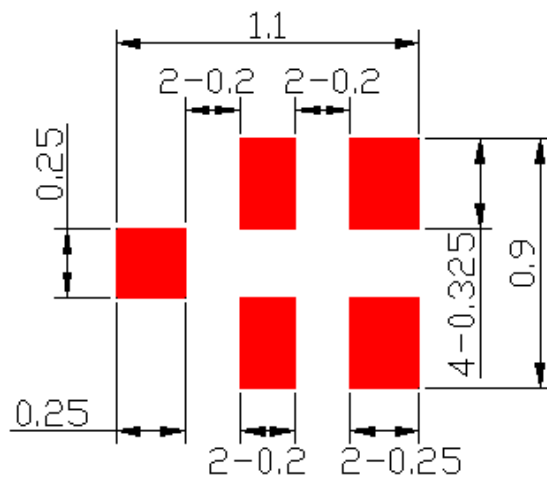
Bottom View



Source Impedance: 50 Ω

Load Impedance: 50 Ω

F. PCB Footprint:

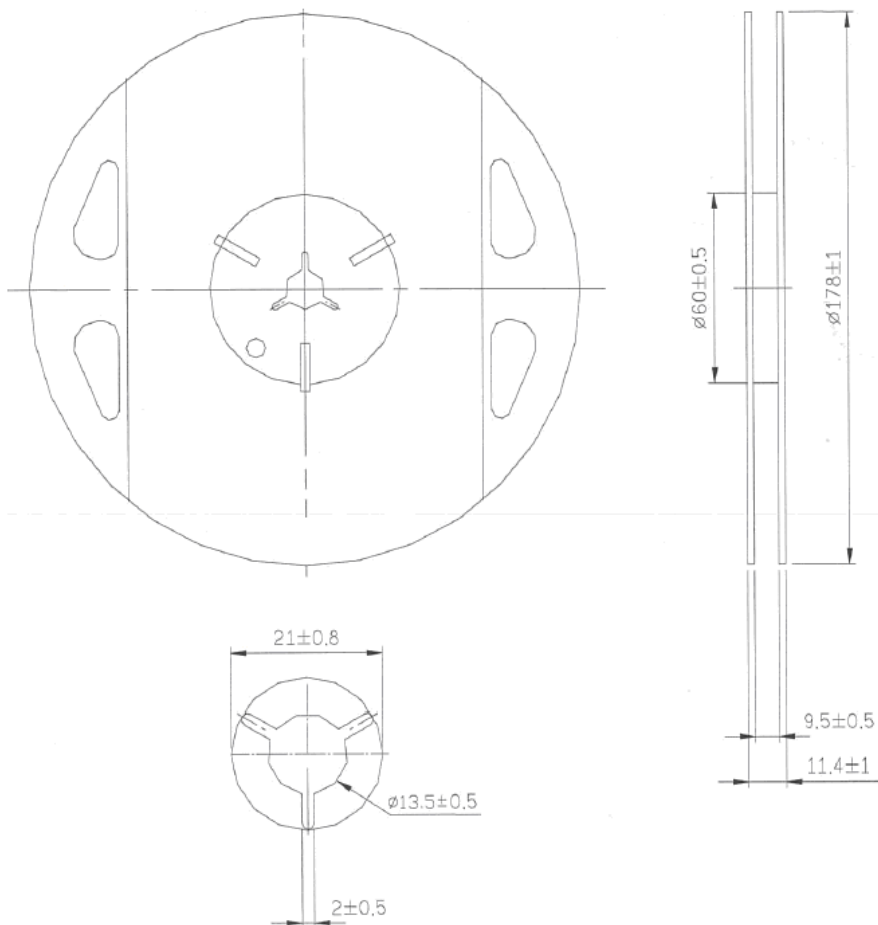


: Land Pattern
Unit: mm

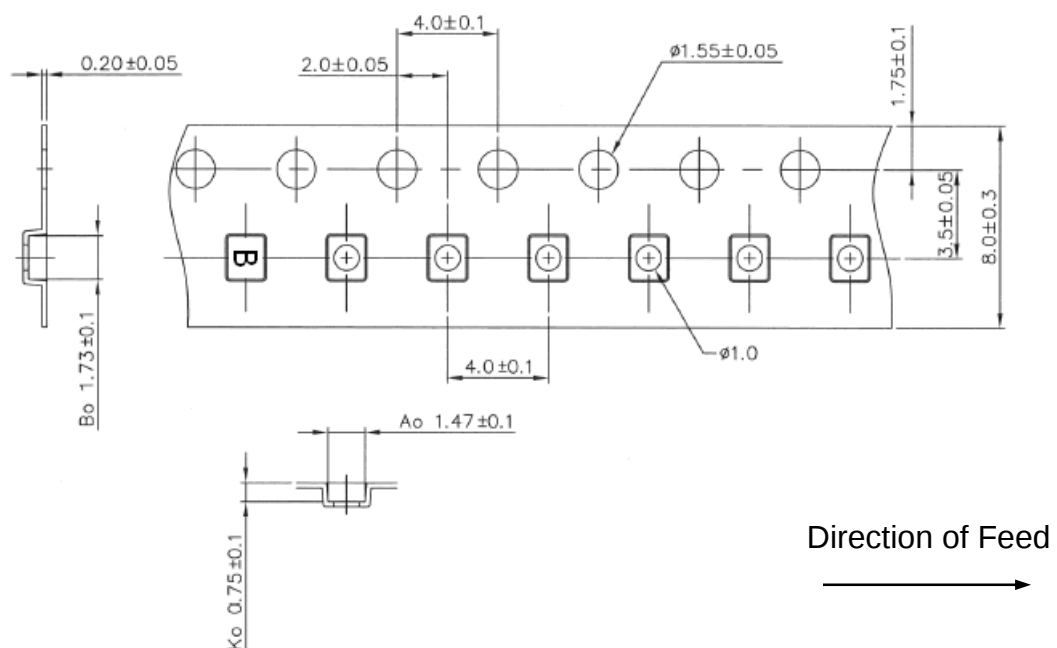
G. PACKING:

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°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

