



TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.

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Product Specifications Approval Sheet

Product Description: SAW Filter 1794 MHz SMD 1.1×0.9 mm (BW = 18 MHz)

TST Parts No.: TA2452A

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 1794 MHz SMD 1.1×0.9 mm (BW 18 MHz)

MODEL NO.: TA2452A

REV. No.: 2.0

A. MAXIMUM RATING:

1. Maximum Input Power: 15 dBm
2. DC voltage: 3 V
3. Operating Temperature: -30°C to +65°C
4. Storage Temperature: -40°C to +85°C
5. ESD: 100V (MM), 200V (HBM)
6. Moisture Sensitive Level: Level 3 (MSL3)



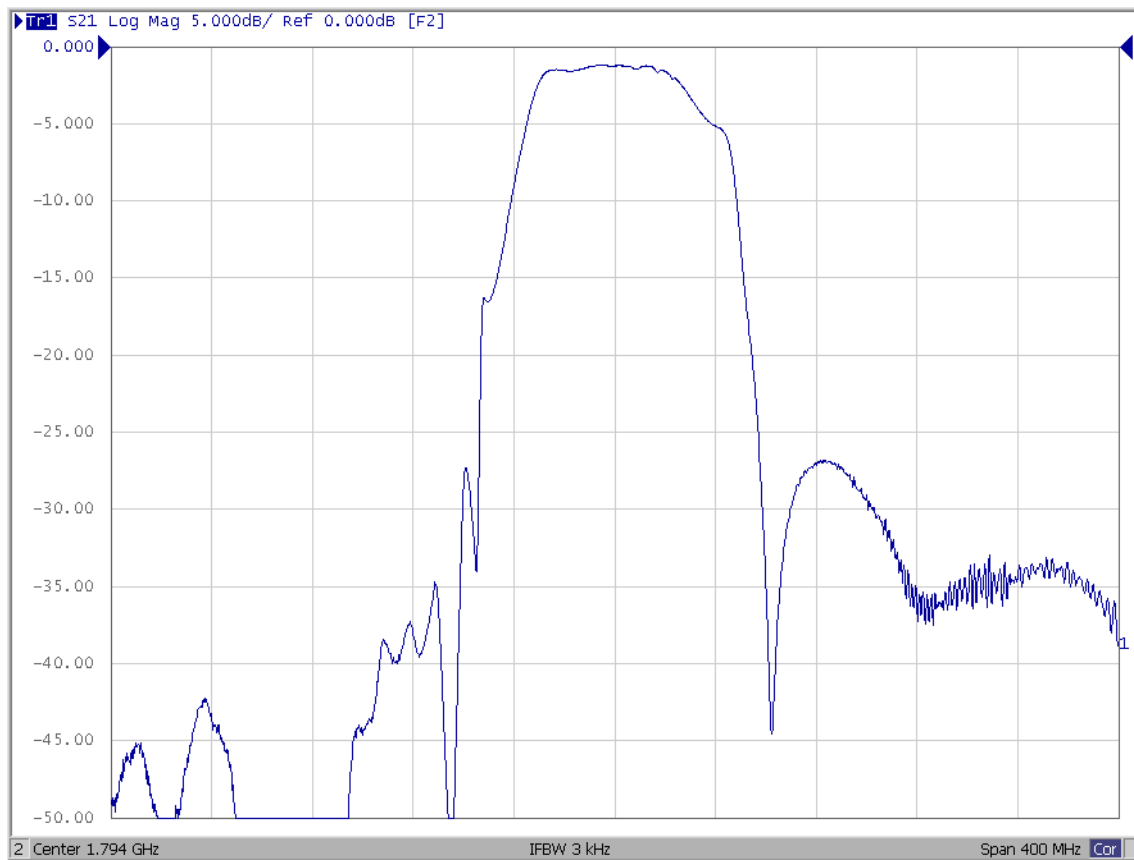
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

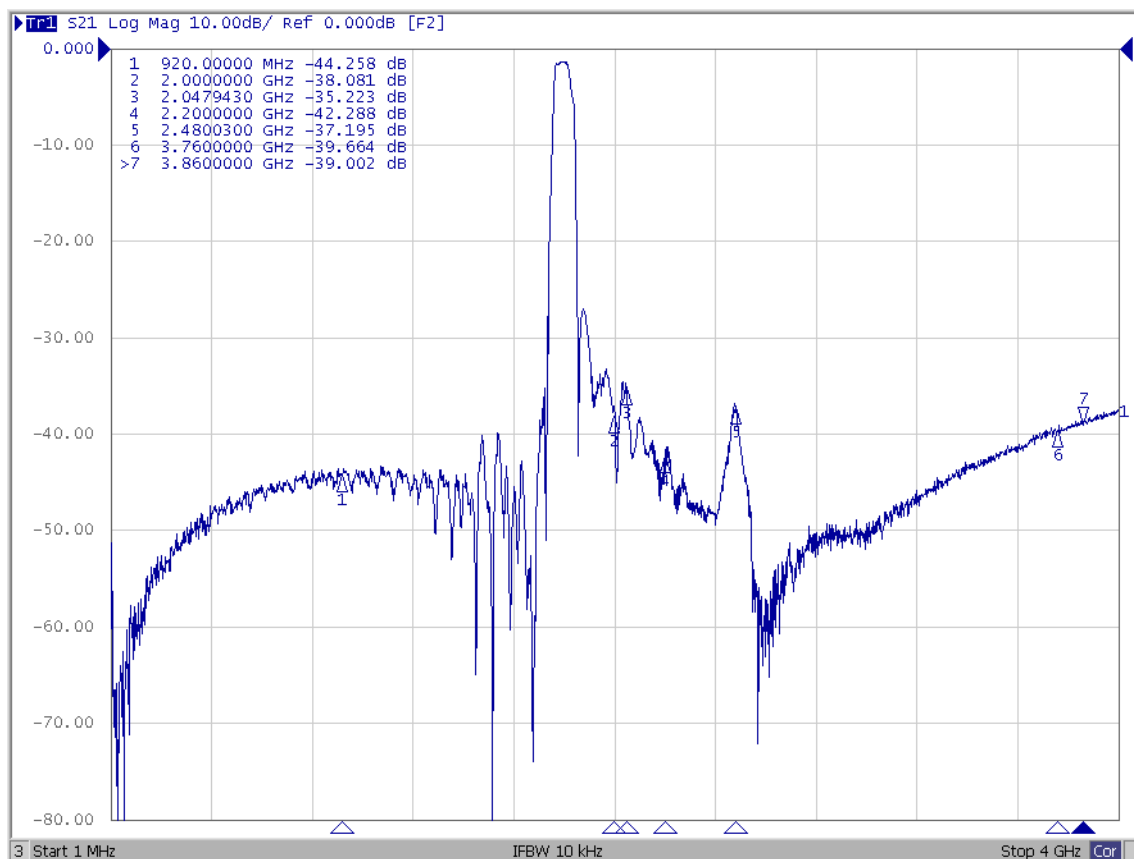
Item	Unit	Min.	Typ.	Max
Center frequency	MHz	-	1794	-
Insertion Loss (1785 ~ 1803 MHz)	dB	-	2.0	2.5
Amplitude ripple (1785 ~ 1803 MHz)	dB	-	0.4	1.5
VSWR (1785 ~ 1803 MHz)	ns	-	1.5	2.0
Attenuation (Reference level from 0 dB)				
920 ~ 961 MHz	dB	40	44	-
2000 ~ 2200 MHz	dB	20	35	-
2400 ~ 2500 MHz	dB	35	42	-
3760 ~ 3860 MHz	dB	30	39	-
Temperature coefficient of frequency	ppm/°C	-	-36	-

C. Frequency Characteristics :

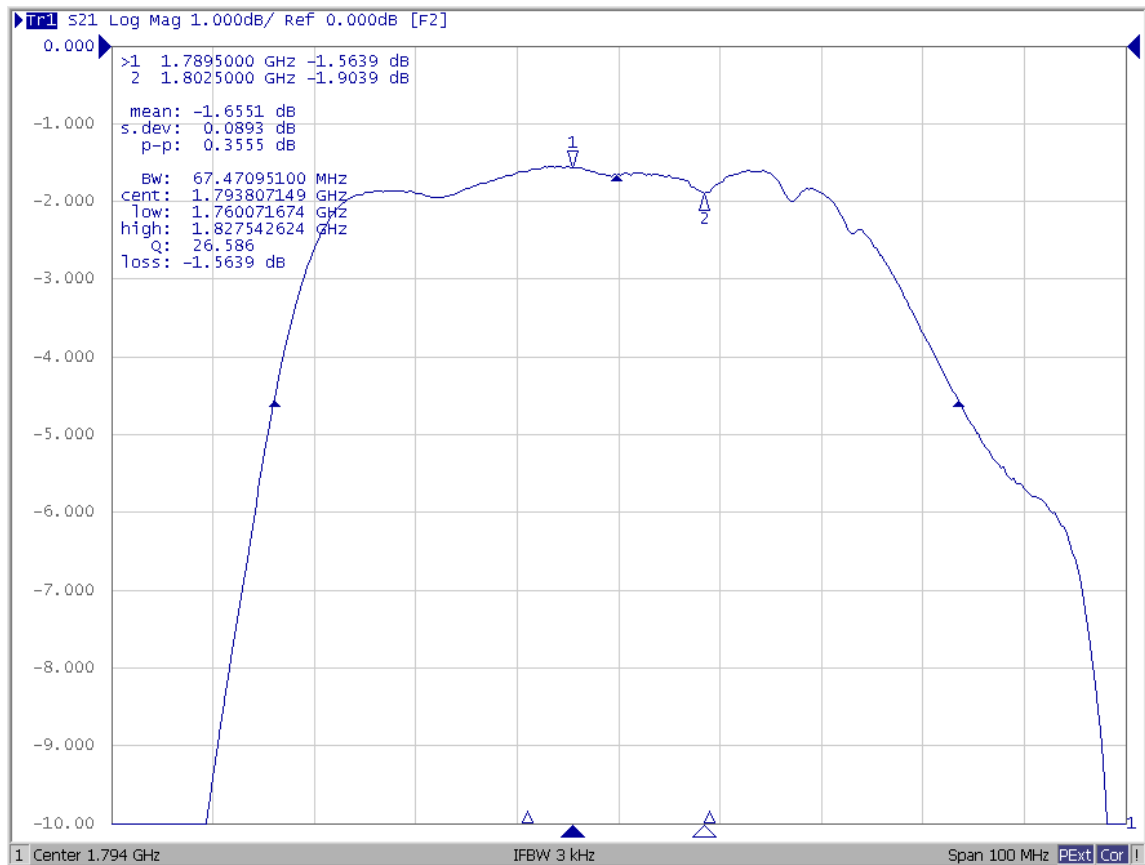
S21dB Span 400 MHz



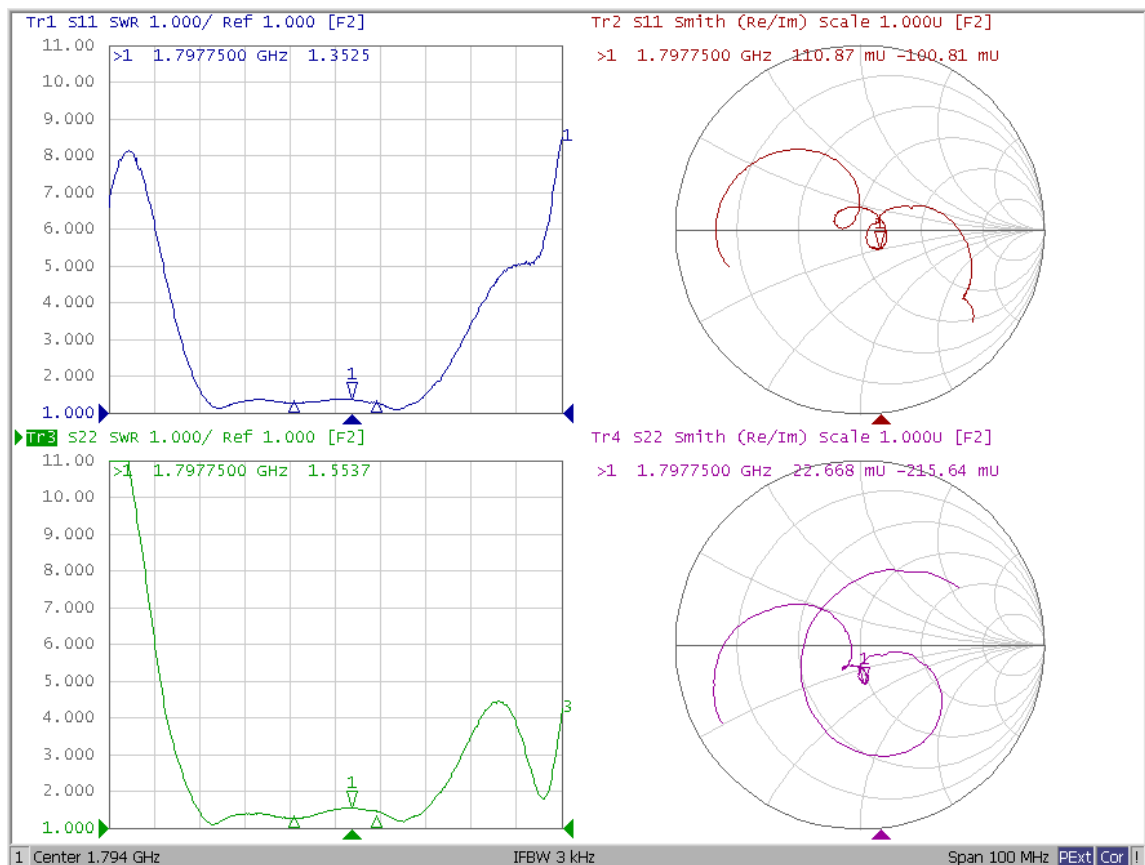
S21dB Span 2500 MHz



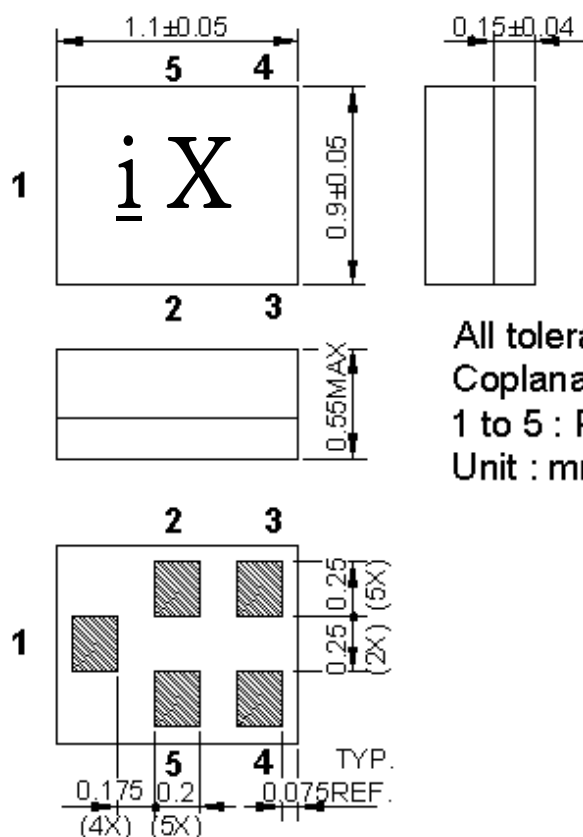
Ripple Span 100 MHz



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

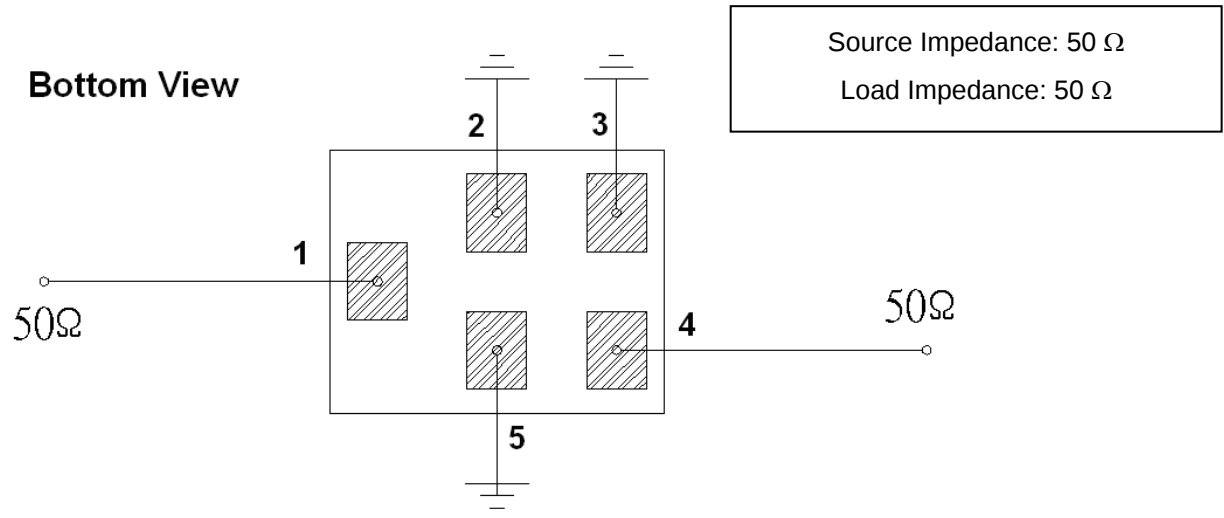
Marking Descriptions	
i	Series Number
X	Date Code(Year+Month)

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

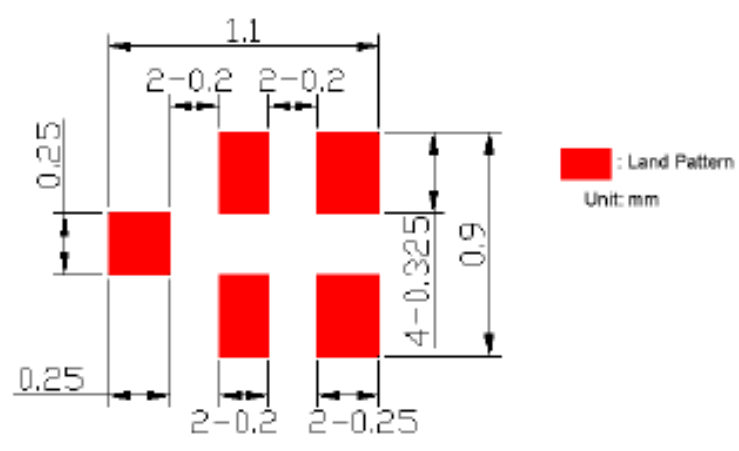
Δ : Year/Month Code (Follow the table)

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:



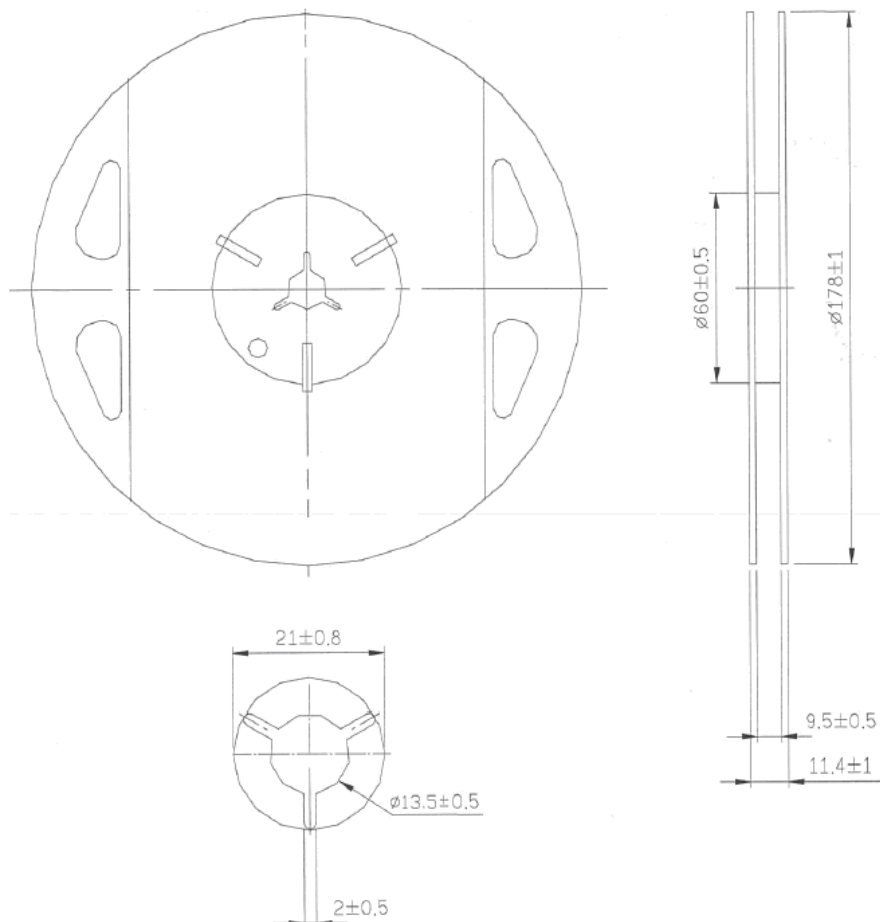
F. FOOT PRINT :



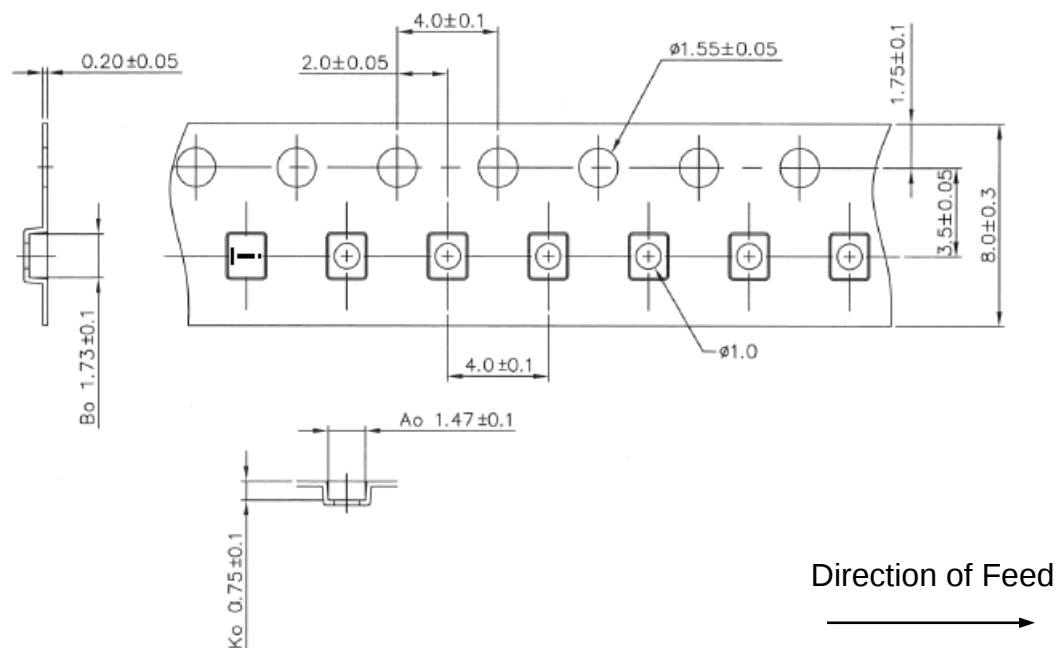
G. PACKING:

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.

