



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

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Product Specifications Approval Sheet

Product Name: SAW Filter 780.5 MHz Band 28 CSP 1.1×0.9 mm

TST Parts No.: TA2394A

Customer Part No.: _____

Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2021/04/13

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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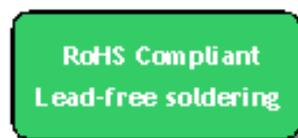
SAW Filter 780 MHz Band 28 CSP 1.1×0.9 mm

MODEL NO.: TA2394A

REV. No.:2.0

A. MAXIMUM RATING:

1. Maximum Input Power: 10 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)



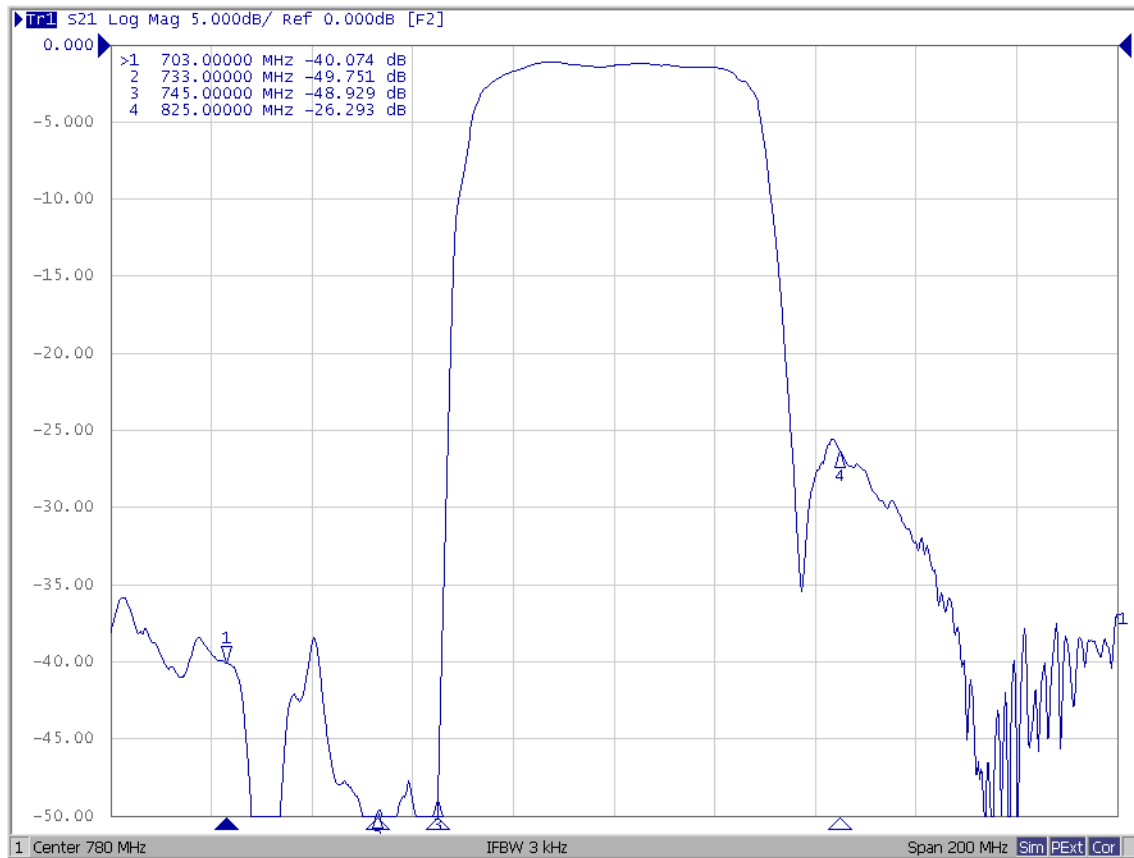
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

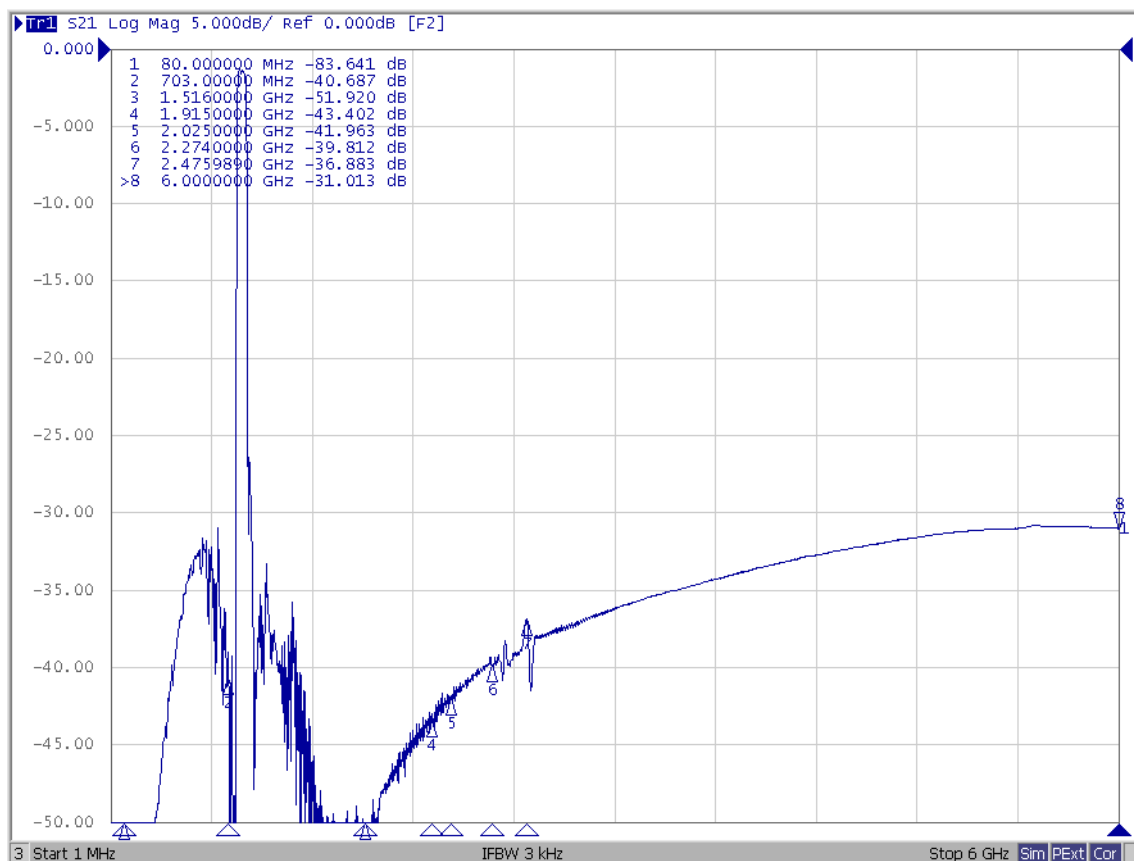
Item	Unit	Min.	Typ.	Max.
Center frequency	MHz	-	780.5	-
Insertion Loss (758 ~ 803 MHz)	dB	-	2.0	3.0
Amplitude Ripple (758 ~ 803 MHz)	dB _{p-p}	-	0.8	2.0
VSWR (758 ~ 803 MHz)	-	-	1.9	2.2
Attenuation (reference level from 0 dB)				
80 ~ 703 MHz	dB	30	33	-
703 ~ 733 MHz	dB	35	38	-
733 ~ 745 MHz	dB	40	47	-
825 ~ 915 MHz	dB	20	26	-
1516 ~ 1915 MHz	dB	40	43	-
1920 ~ 2025 MHz	dB	36	41	-
2274 ~ 2500 MHz	dB	30	37	-
4900 ~ 6000 MHz	dB	25	31	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-

C. Frequency Characteristics:

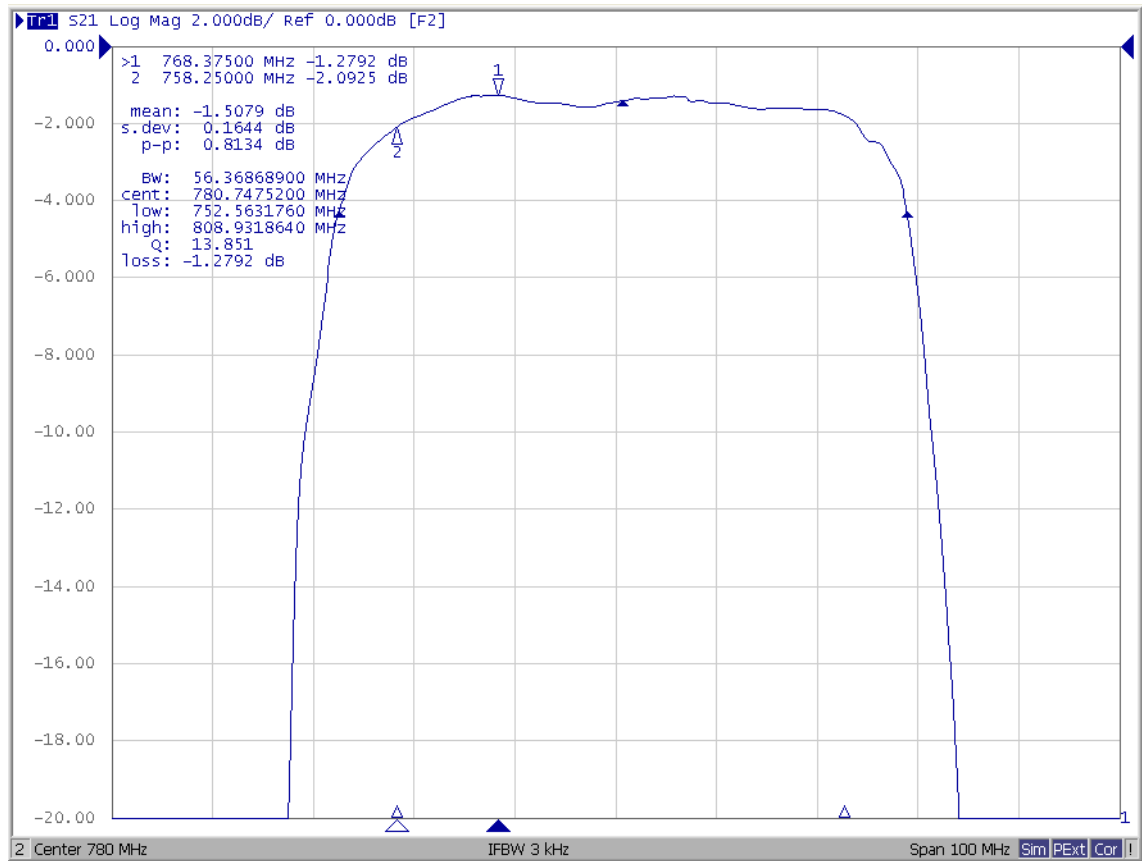
Span 200 MHz



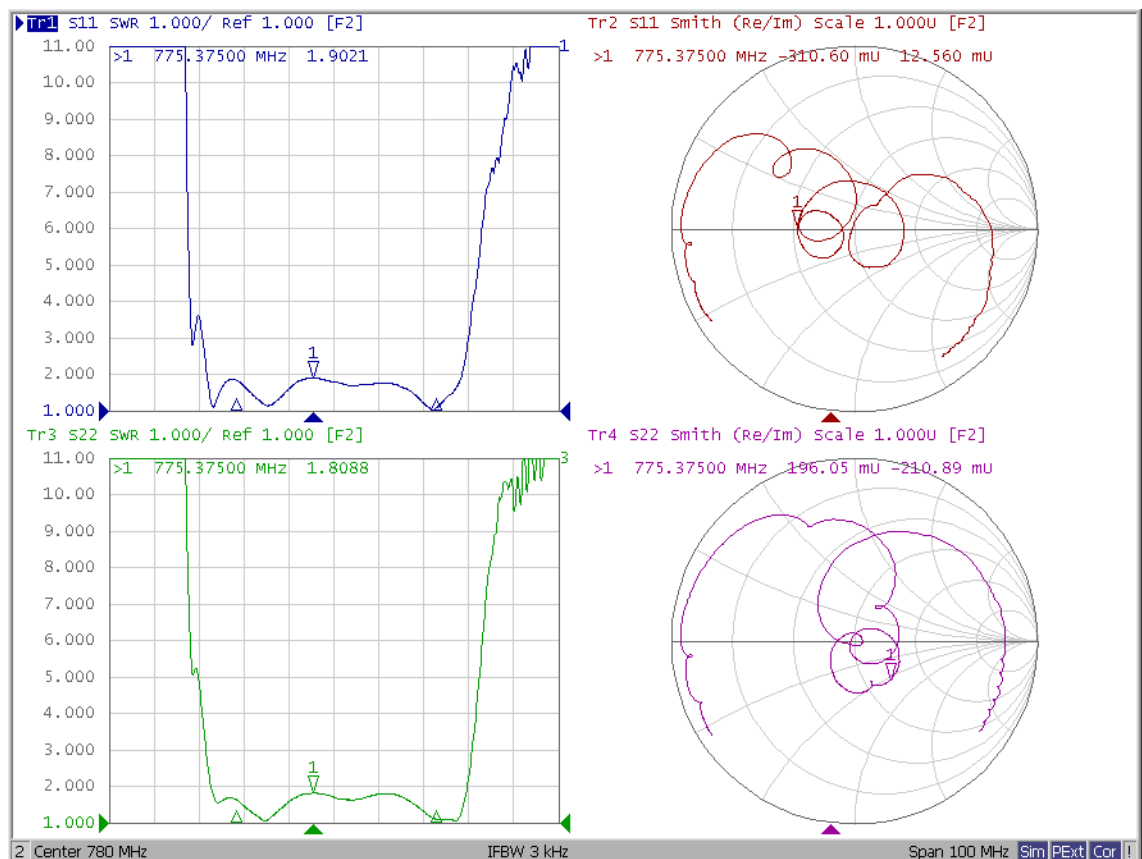
S21dB Span 6000 MHz



Span 100 MHz

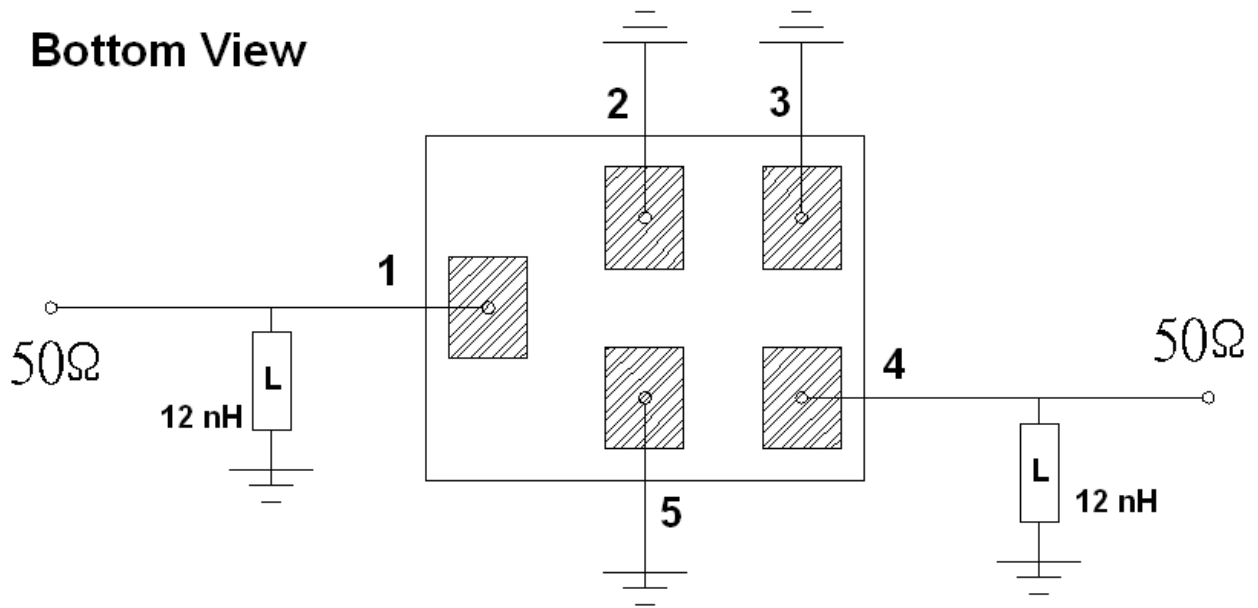


Reflective Characteristic



D. MEASUREMENT CIRCUIT:

Bottom View

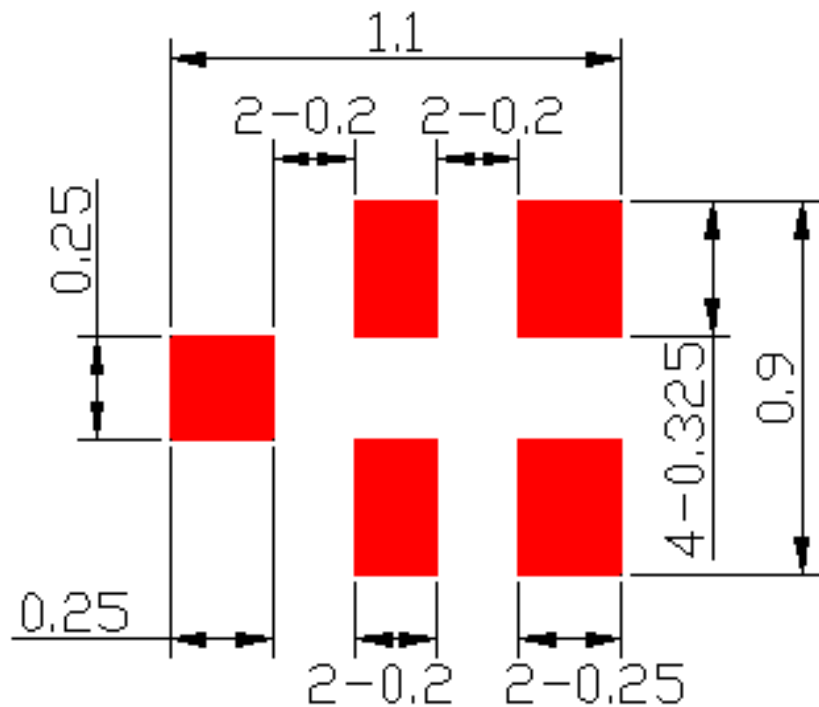


Source Impedance: 50 Ω

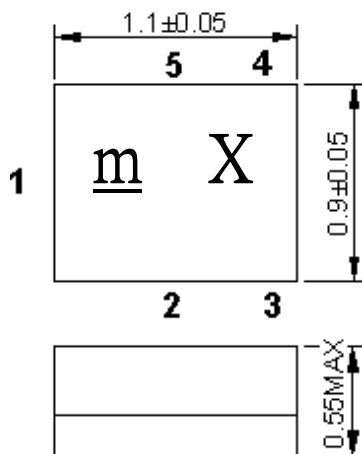
Load Impedance: 50 Ω

E. PCB Footprint:

: Land Pattern
Unit: mm



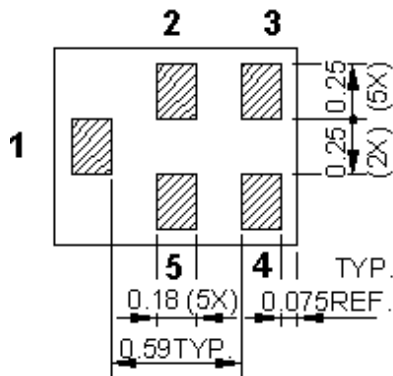
F. OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.

1 to 5 : Pin No.

Unit : mm



Marking Descriptions	
<u>m</u>	Series Number
X	Date Code(Year+Month)

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

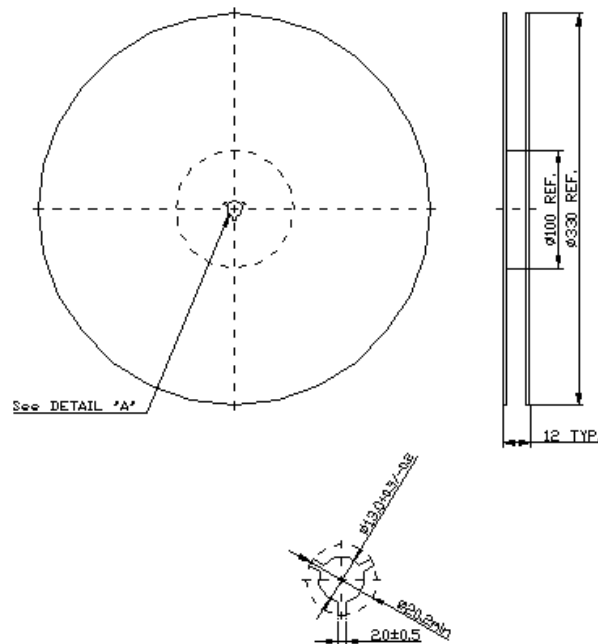
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013/2021	A	B	C	D	E	F	G	H	J	K	L	M
2014/2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015/2023	a	b	c	d	e	f	g	h	j	k	l	m
2016/2024	n	p	q	r	s	t	u	v	w	x	y	z
2017/2025	<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>
2018/2026	<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>
2019/2027	<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>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020/2028	<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>

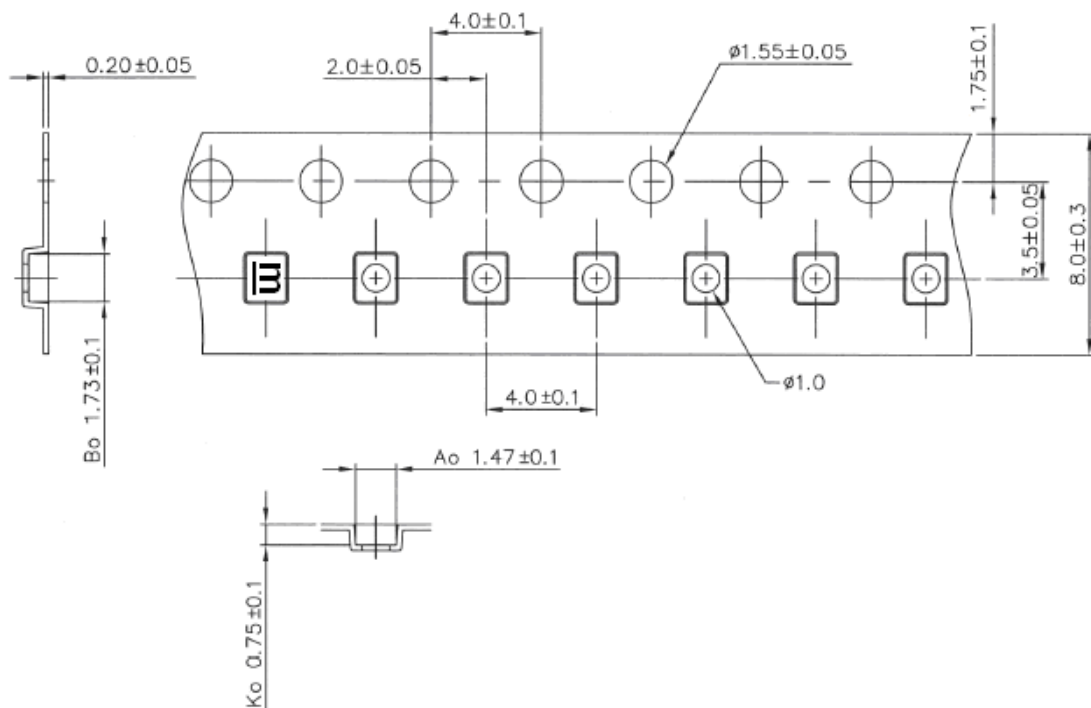
G. PACKING:

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.

