



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 2442 MHz CSP 1.1×0.9 mm

TST Parts No.: TA2603A

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 2442 MHz CSP 1.1×0.9 mm

MODEL NO.: TA2603A

REV. No.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -30°C to +85°C
5. Moisture Sensitive Level: Level 3 (MSL3)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

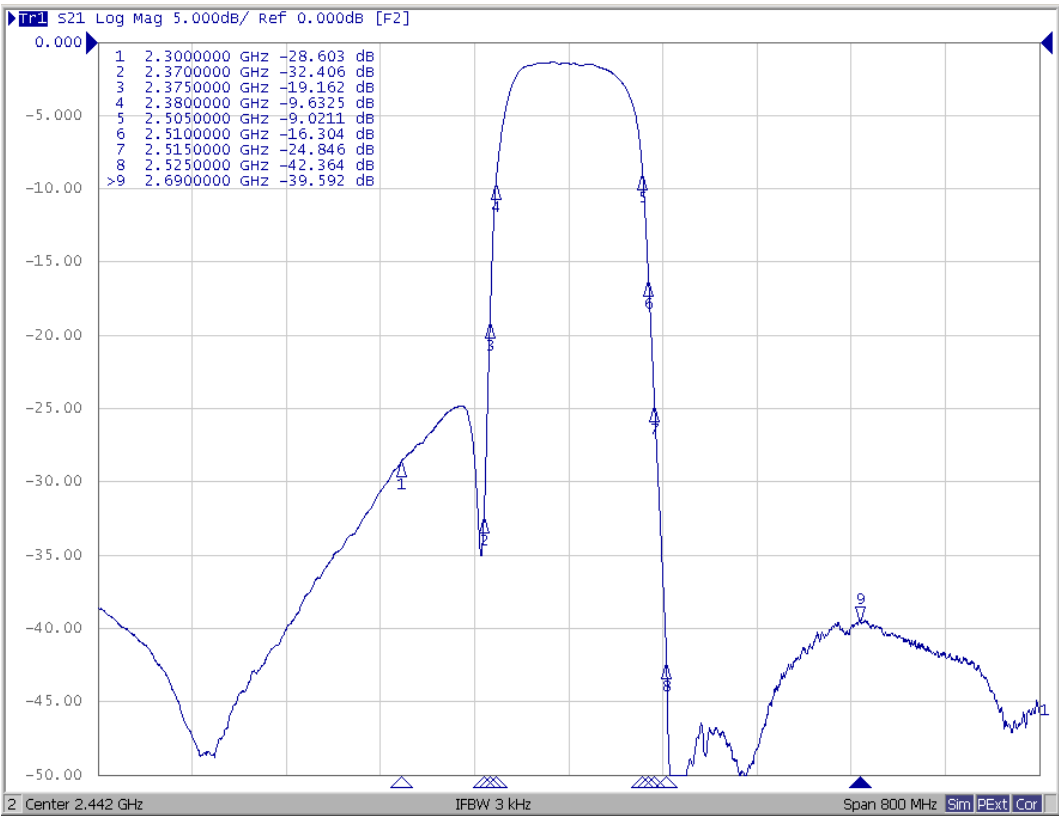
Terminating source impedance: $Z_s = 50 \Omega$

Terminating load impedance: $Z_L = 50 \Omega$

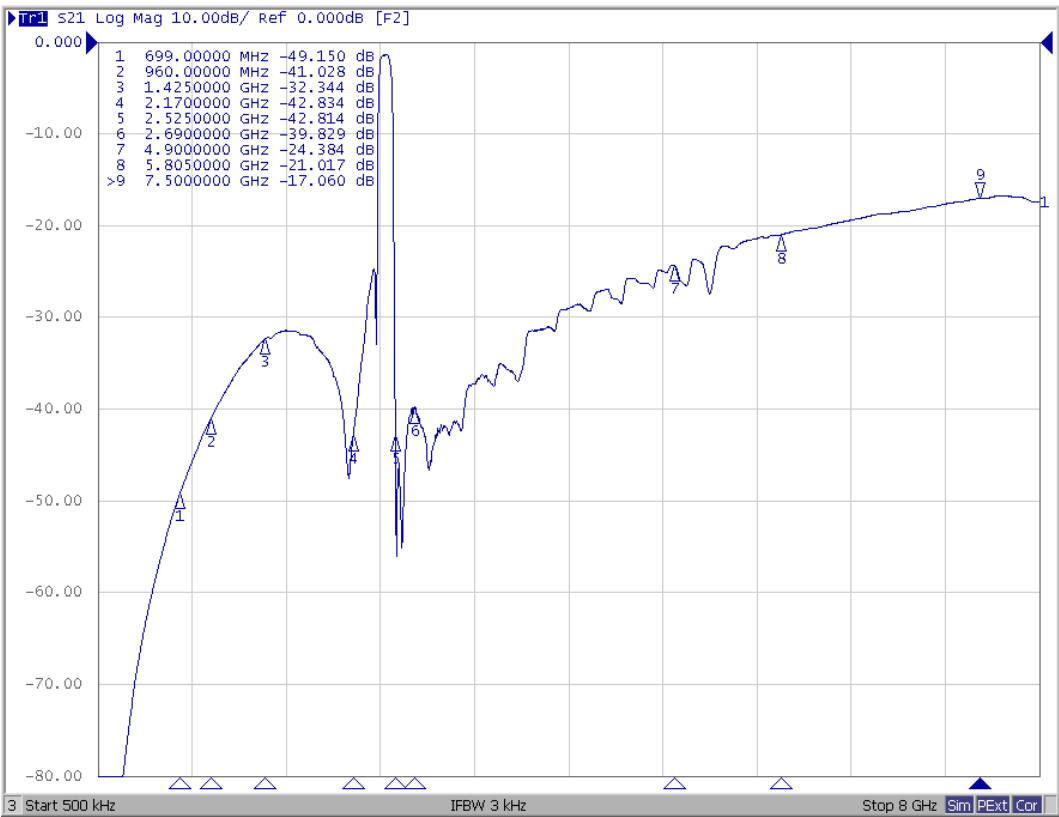
Item	Unit	Min.	Type.	Max.
Center Frequency	MHz	-	2442	-
Insertion Loss (2401 ~ 2483 MHz)	dB	-	2.3	3.0
Amplitude ripple (2401 ~ 2483 MHz)	dB	-	1.0	2.0
VSWR (2401 ~ 2483 MHz)	-	-	1.5	2.2
Attenuation				
699 ~ 960 MHz	dB	33	41	-
1425 ~ 2170 MHz	dB	25	32	-
2300 ~ 2370 MHz	dB	10	25	-
2370 ~ 2375 MHz	dB	6	19	-
2375 ~ 2380 MHz	dB	-	9.6	-
2505 ~ 2510 MHz	dB	-	9.0	-
2515 ~ 2525 MHz	dB	8	16	-
2525 ~ 2690 MHz	dB	28	40	-
4900 ~ 5805 MHz	dB	15	21	-
7200 ~ 7500 MHz	dB	12	18	-
Temperature Coefficient of Frequency	ppm/C°	-	-36	-

C. Frequency Characteristics :

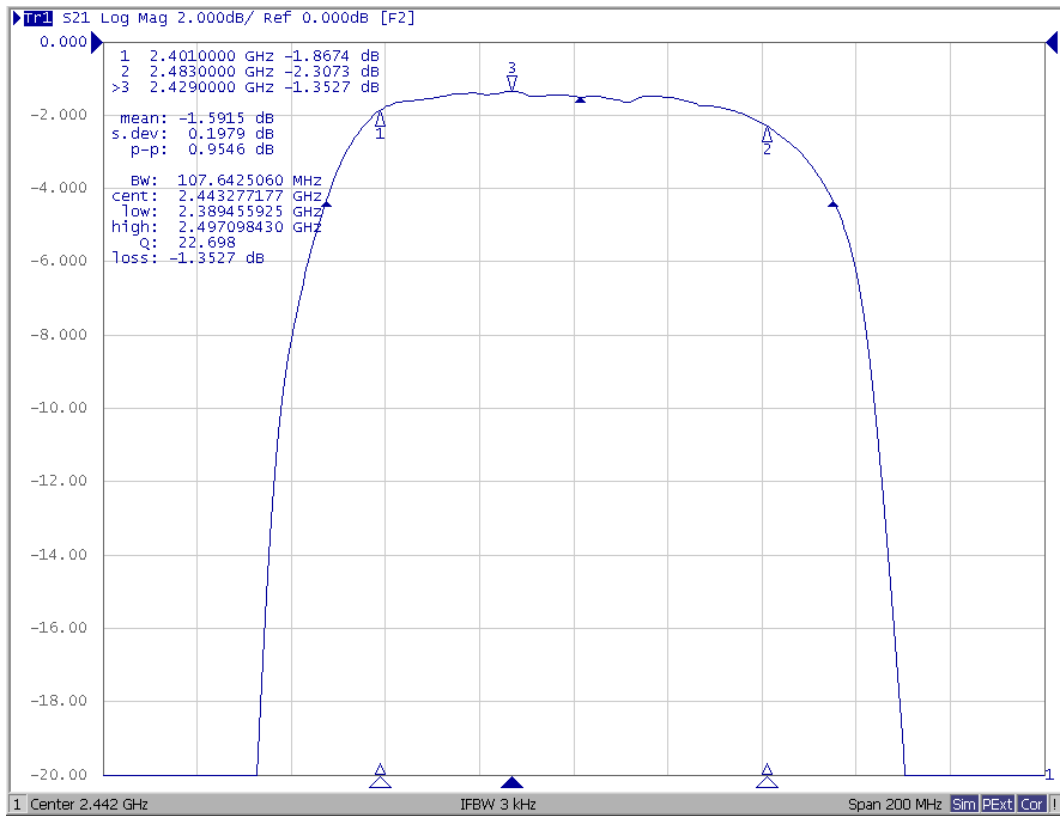
Span 800 MHz



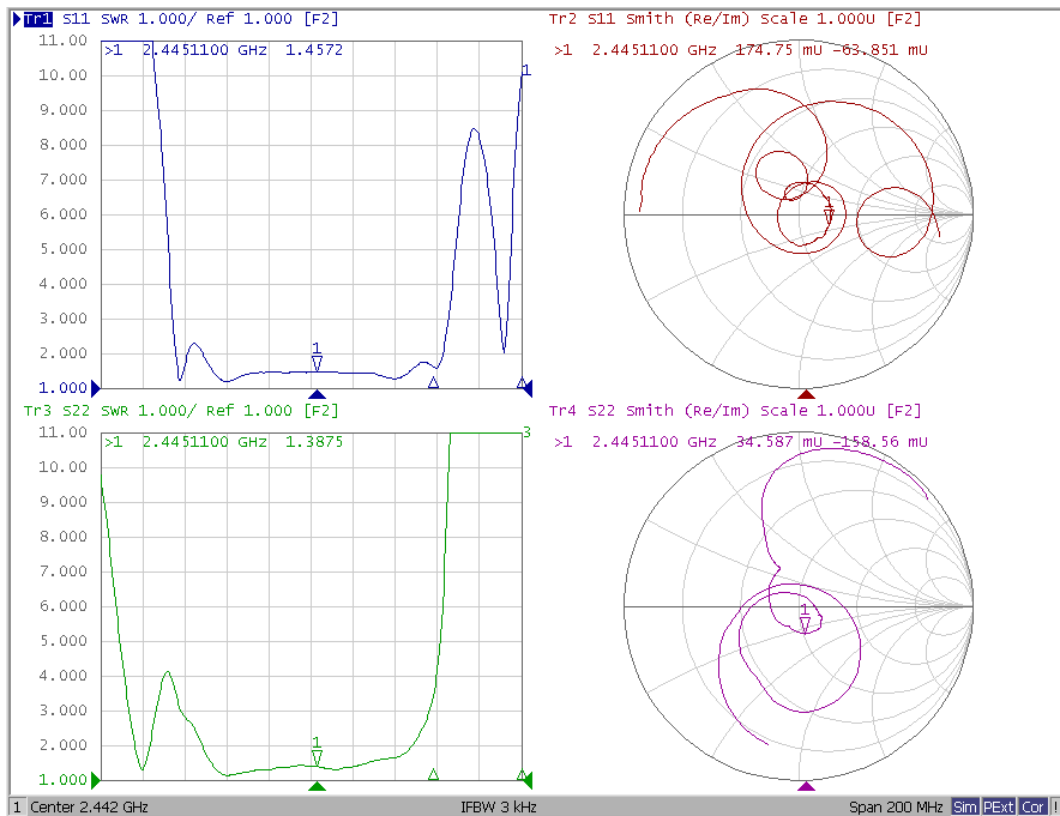
Span 8000 MHz



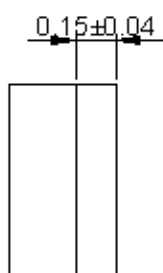
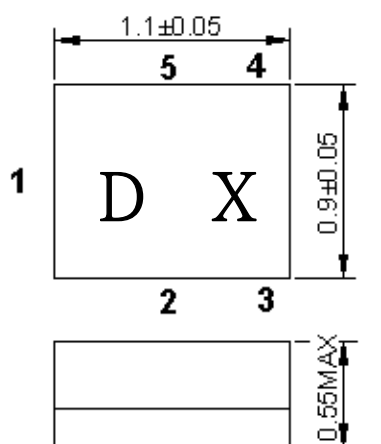
Ripple Span 200 MHz



Reflective Characteristic



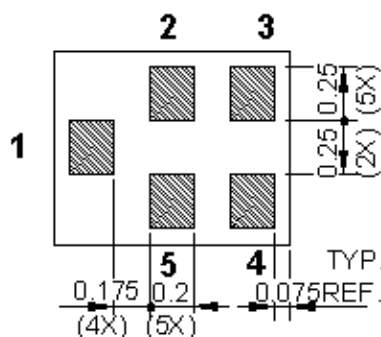
D. OUTLINE DRAWING:



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

1 to 5 : Pin No.

Unit : mm



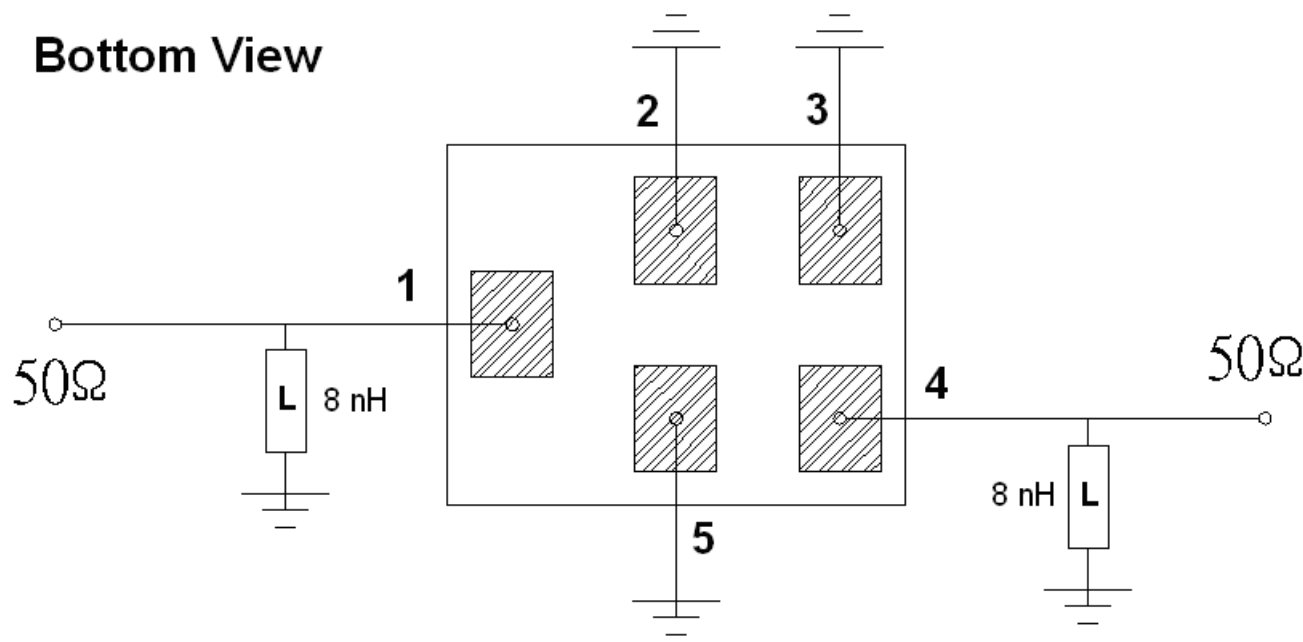
Marking Descriptions	
D	Series Number
X	Date Code(Year+Month)

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

X : Year/Month Code (Follow the table)

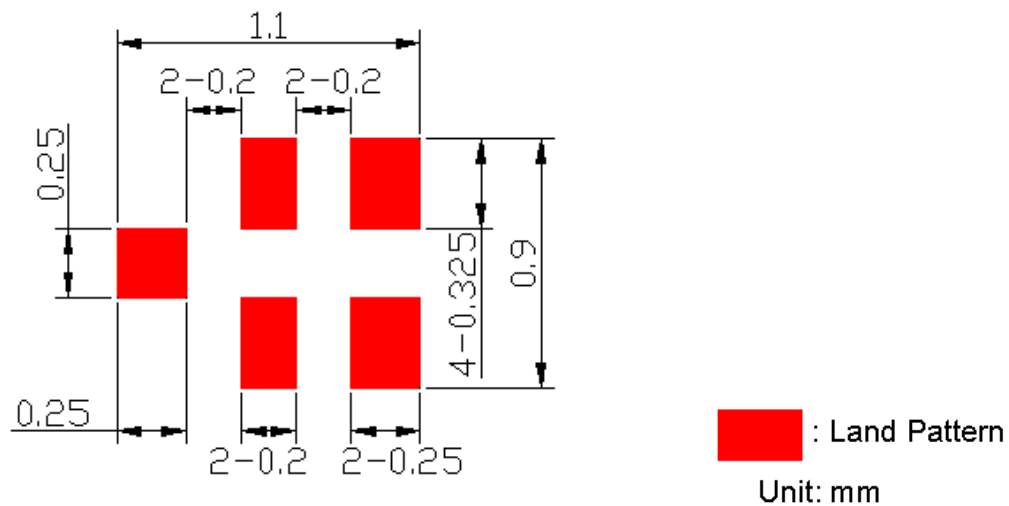
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2026	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R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



Source Impedance: 50 Ω
Load Impedance: 50 Ω

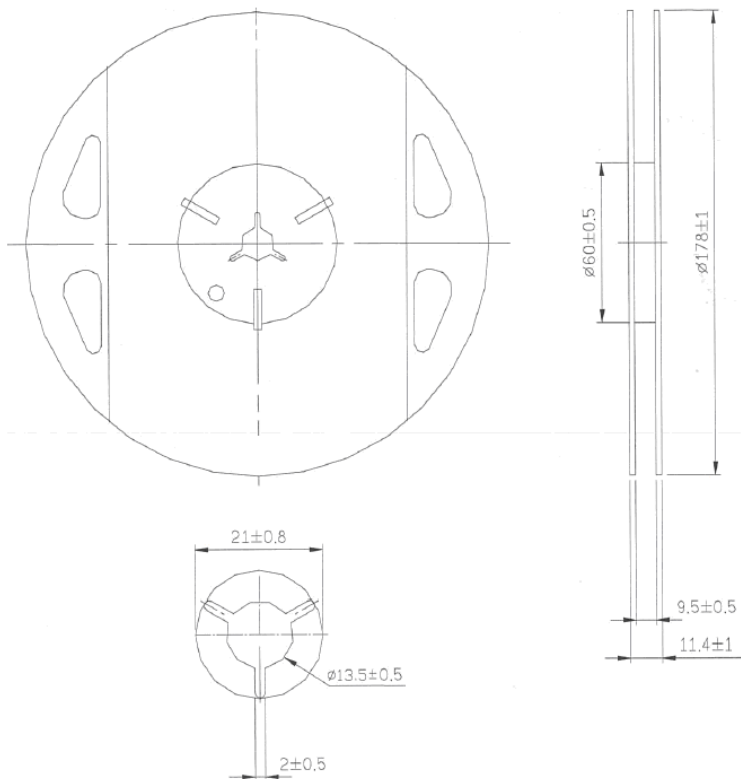
F. PCB Footprint:



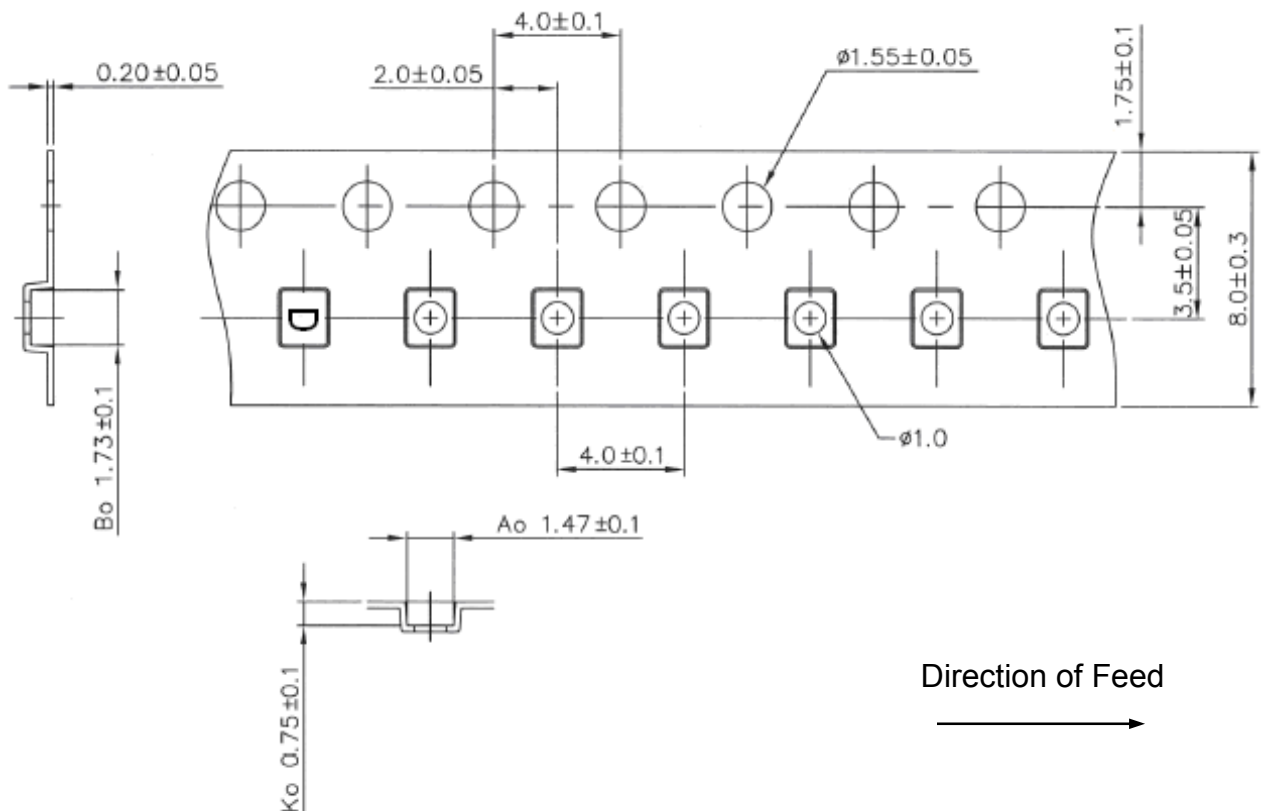
G. PACKING:

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°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.

