



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 403.5 MHz 3MHz BW SMD 1.4X1.1 mm

TST Part No.: TA1759A

Customer Part No.: _____

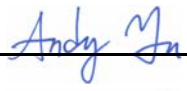
Customer signature required

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Andy Yu 

Approved by: _____ Bob Chau 

Date: _____ 2015/01/27

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 403.5MHz 3MHz BW SMD 1.4X1.1 mm

MODEL NO.:TA1759A

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 17 dBm
2. DC Voltage : 3V
3. Operating Temperature: 0°C to +55°C
4. Storage Temperature: -20°C to +70°C

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

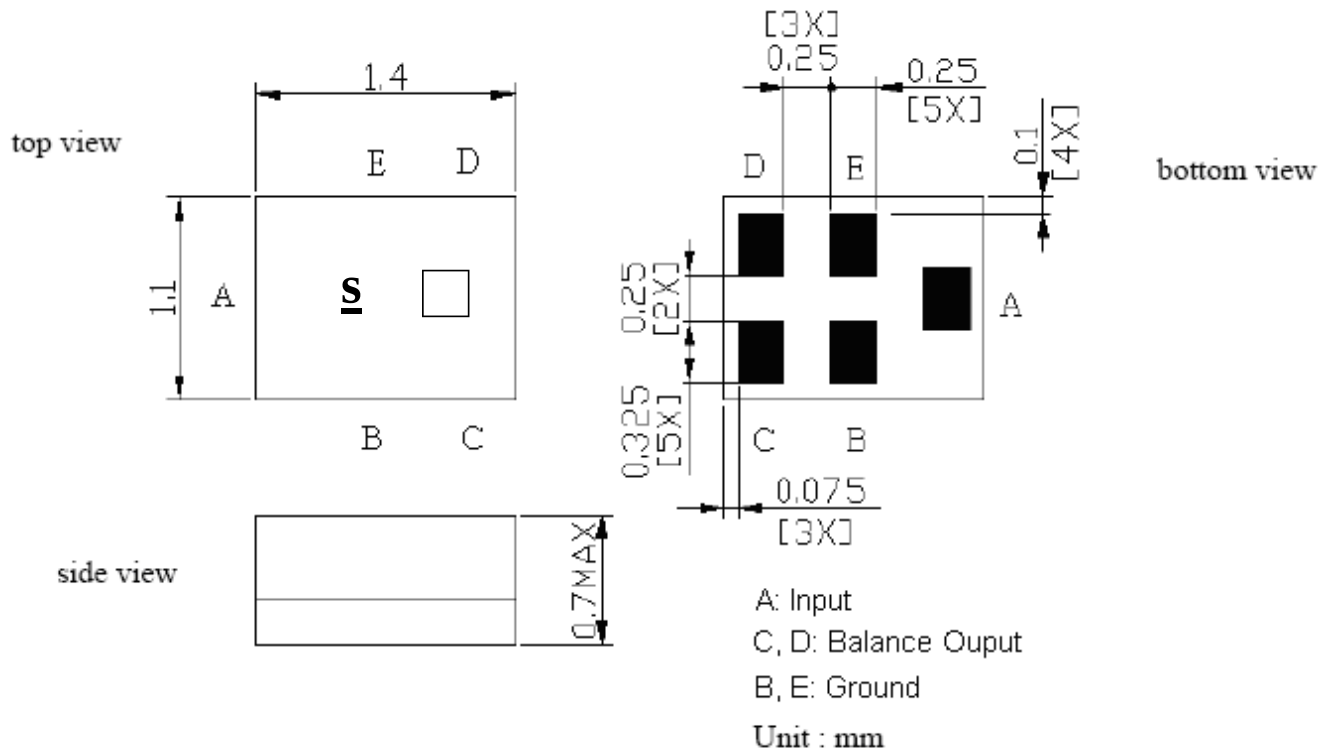
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance : $Z_s = 50 \Omega$ (single)

Terminating load impedance : $Z_L = 130 \Omega$ (balanced)

Item	Unit	Min.	Type.	Max.	Note
Center Frequency Fc	MHz	-	403.5	-	-
Insertion Loss (402~405 MHz) IL	dB	1.0	2.1	3.0	-
-1.5dB Band Width BW	dB	3.0	5.3	-	-
Amplitude ripple (402~405 MHz)	dB	-	0.5	1.5	
Input VSWR (402~405 MHz)		-	1.7	2.0	-
Output VSWR (402~405 MHz)		-	1.7	2.0	-
Attenuation					
D.C ~ 339.5 MHz	dB	38	65	-	-
339.5 ~ 358.5 MHz	dB	38	66	-	-
358.5 ~ 383.5 MHz	dB	37	58	-	-
358.5 ~ 398 MHz	dB	20	28	-	-
412 ~ 423.5 MHz	dB	22	35	-	
423.5 ~ 448.5 MHz	dB	30	36	-	-
448.5 ~ 467.5 MHz	dB	35	57	-	-
467.5 ~ 500 MHz	dB	35	58	-	-
500 ~ 700 MHz	dB	33	51	-	-
700 ~ 1000 MHz	dB	33	49	-	-
1000 ~ 1210 MHz	dB	35	46	-	-
1210 ~ 2500 MHz	dB	33	38	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	-

C.OUTLINE DRAWING:



Marking name: S

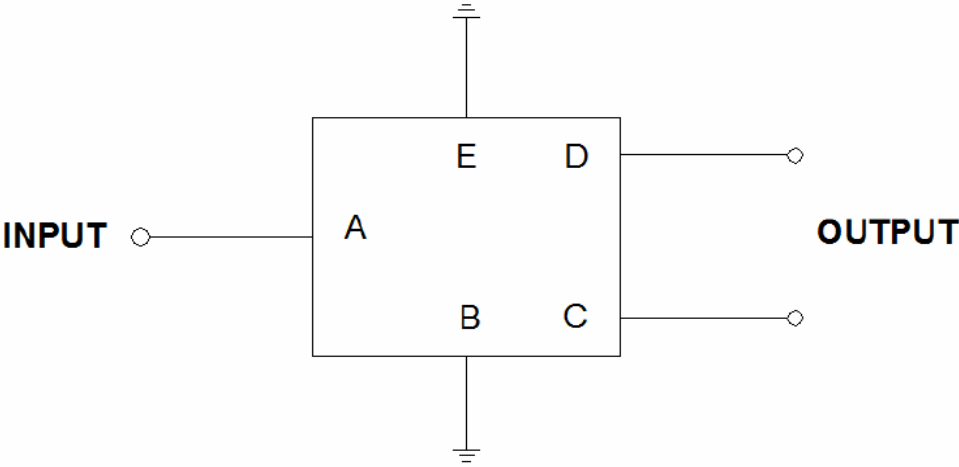
☐ Date code: Please refer to our date code blank as below.

Date code Option

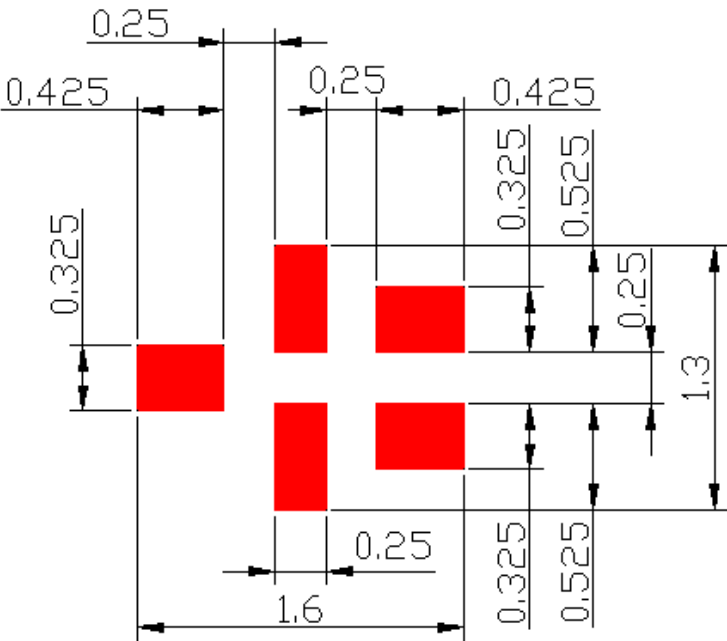
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2009	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2010	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2011	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</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>
2012	<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>
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

D. MEASUREMENT CIRCUIT:

Input: Single 50 ohm; Output: Balanced 130 ohm



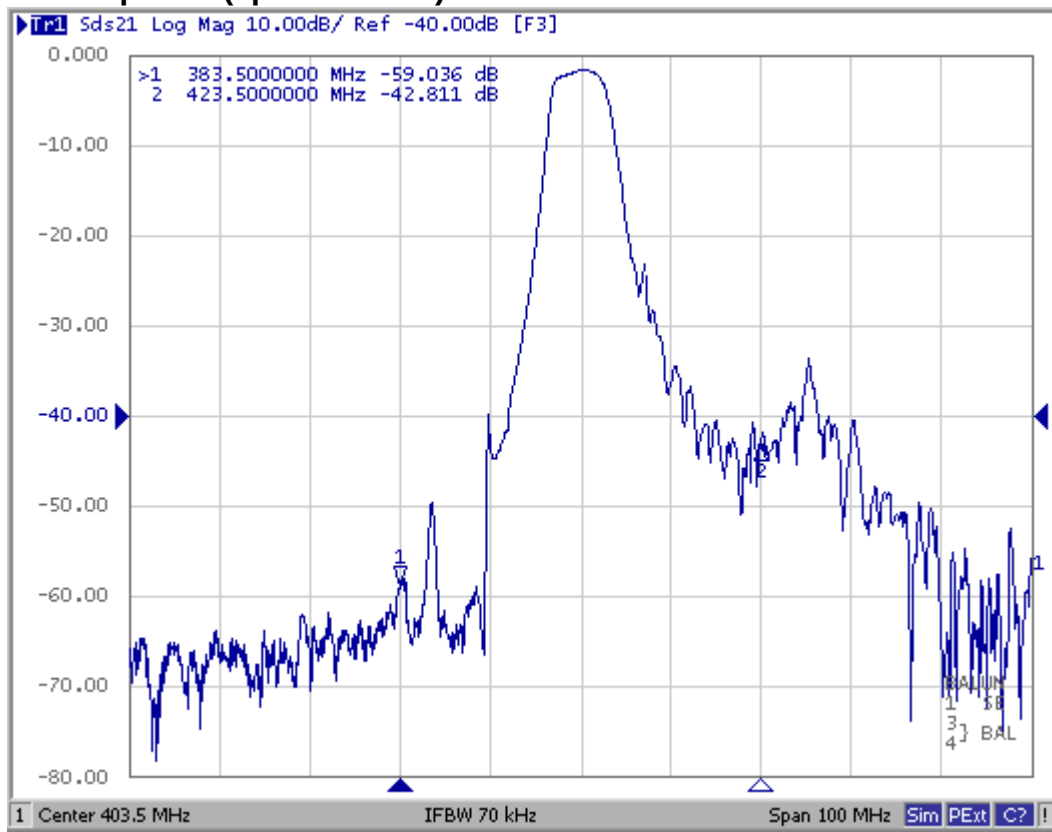
E. PCB Footprint:



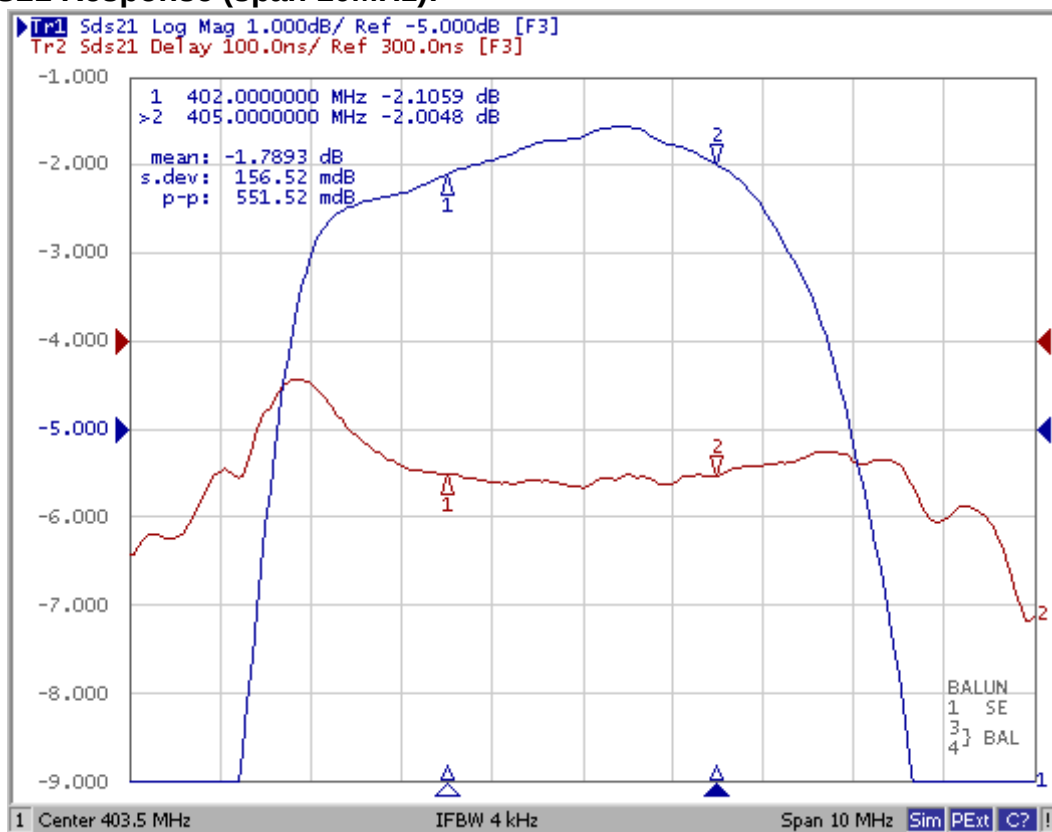
 : Land Pattern
Unit : mm

F. Frequency Characteristics :

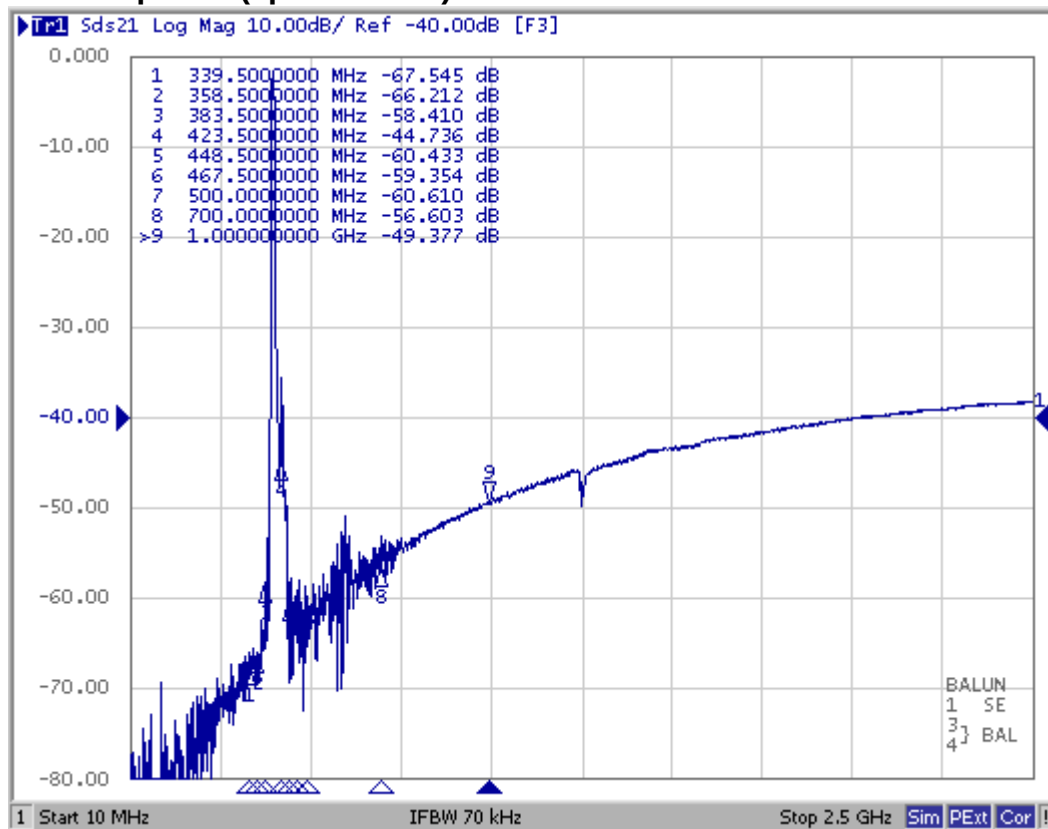
1. S21 Response (span 100MHz):



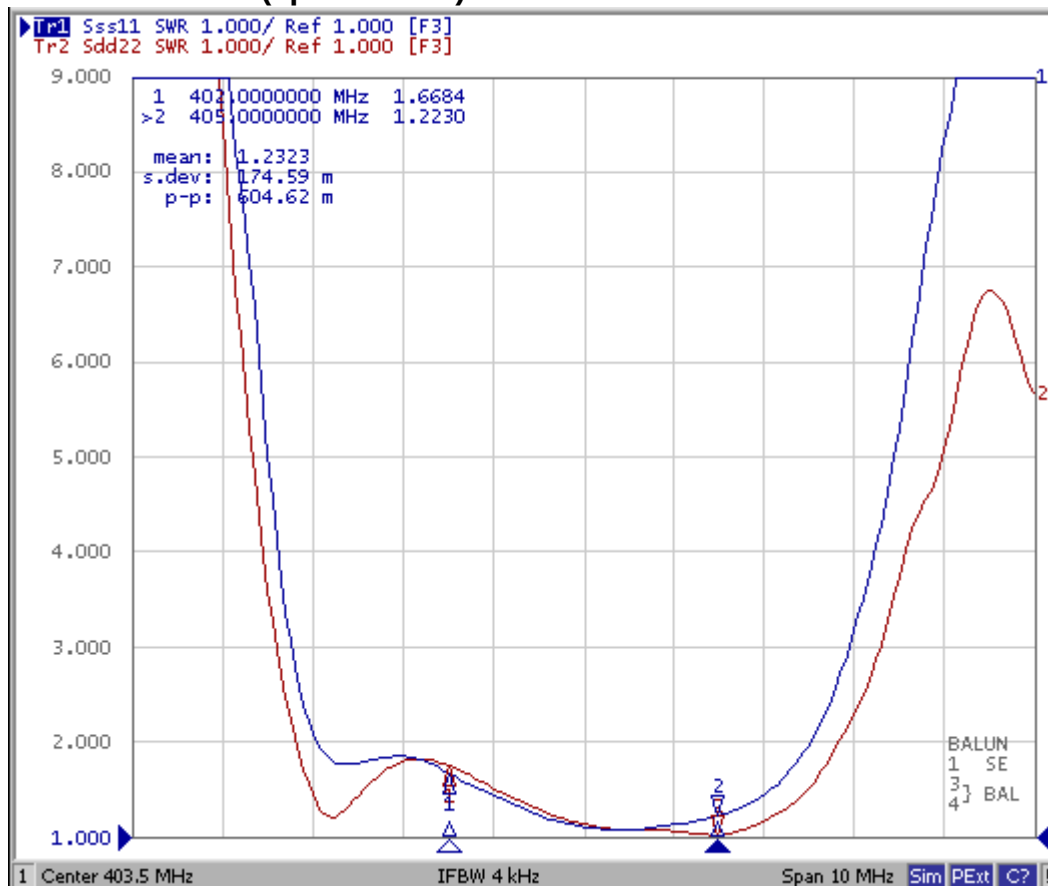
2. S21 Response (span 10MHz):



3. S21 Response (span 2.5GHz):



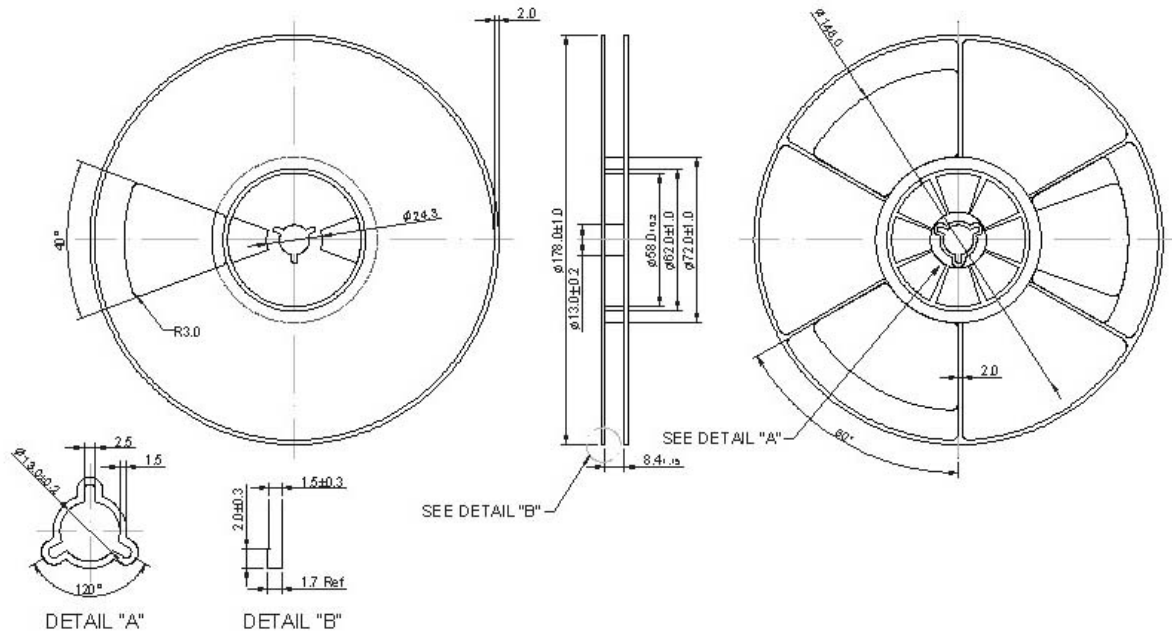
4. S11&S22 VSWR (span 10MHz):



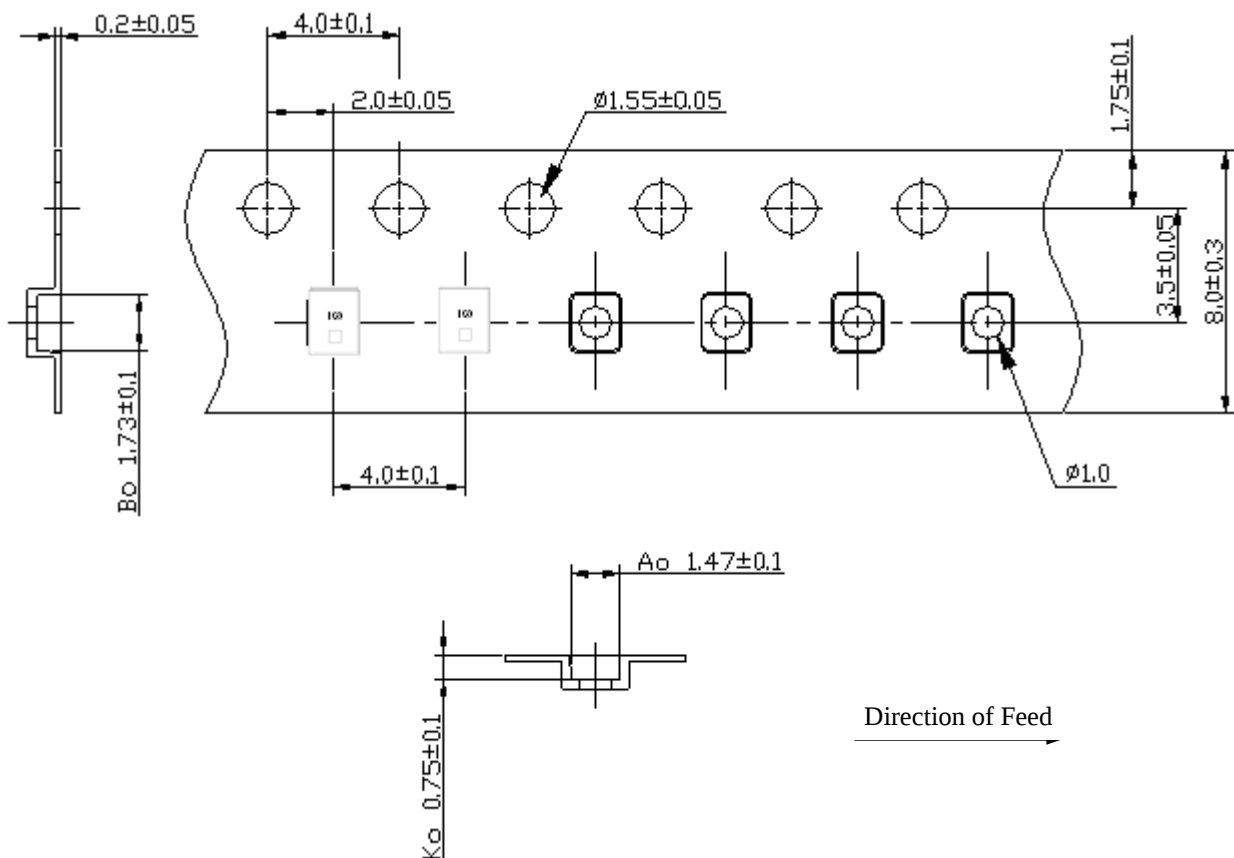
G. PACKING:

1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

