



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specification Approval Sheet

Product Description: SAW Filter 788 MHz Band 28 Rx SMD 1.4x1.1 mm (30MHz BW)

TST Part No.: TA2474A

Customer Part No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2018, 12. 25

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 change



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SAW Filter 788 MHz Band 28 Rx SMD 1.4X1.1 mm (30MHz BW)

MODEL NO.:TA2474A

REV.1

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 0 V
3. Operating temperature range: -30 °C to +85 °C
4. Storage temperature range: -40 °C to +85 °C
5. Moisture Sensitive Level: Level 1 (MSL 1)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant

Lead-free soldering

Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Source impedance (unbalanced) : $Z_s = 50 \Omega$

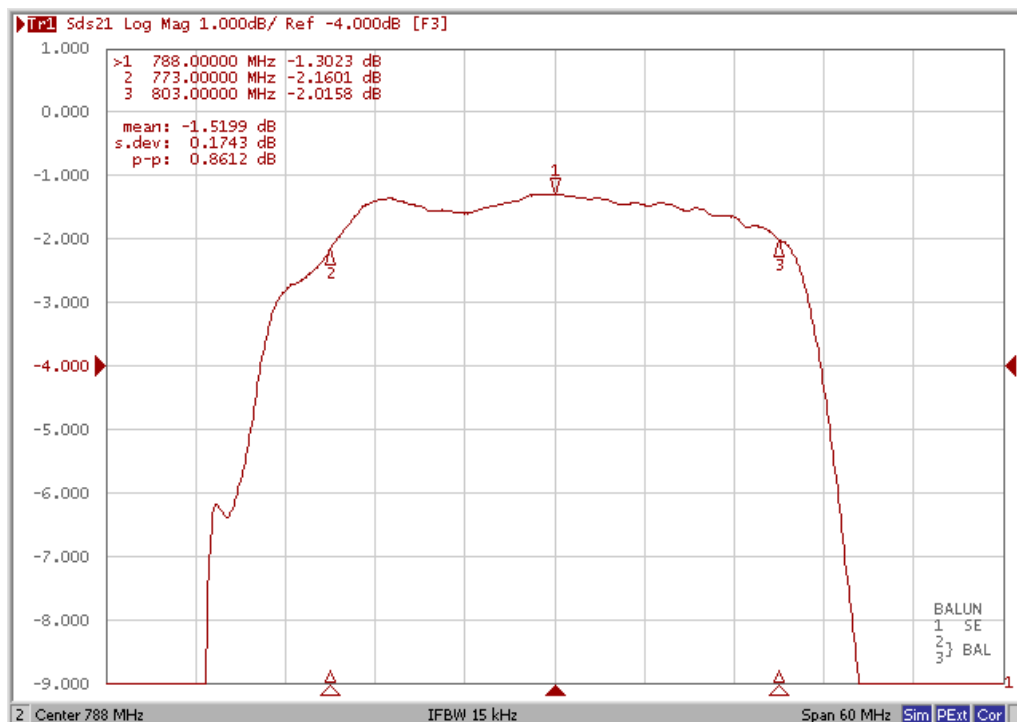
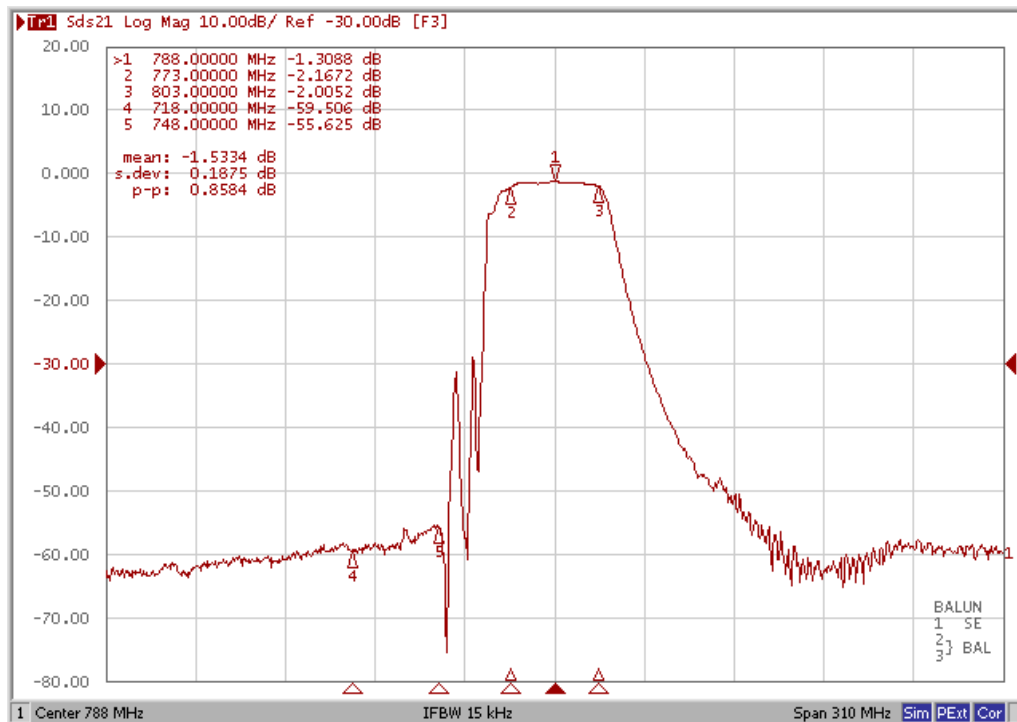
Load Impedance (balanced) : $Z_L = 100 \Omega$

Parameters Description	Unit	Min	Typ	Max
Center frequency Fc	MHz	-	788	-
Insertion Loss 773.0 ~ 803.0 MHz	dB	-	2.1	3.8
Amplitude ripple 773.0 ~ 803.0 MHz	dBp-p	-	0.8	2.0
V.S.W.R 773.0 ~ 803.0 MHz			1.8	2.5
Attenuation:				
718.0 ~ 748.0 MHz	dB	40	55	-

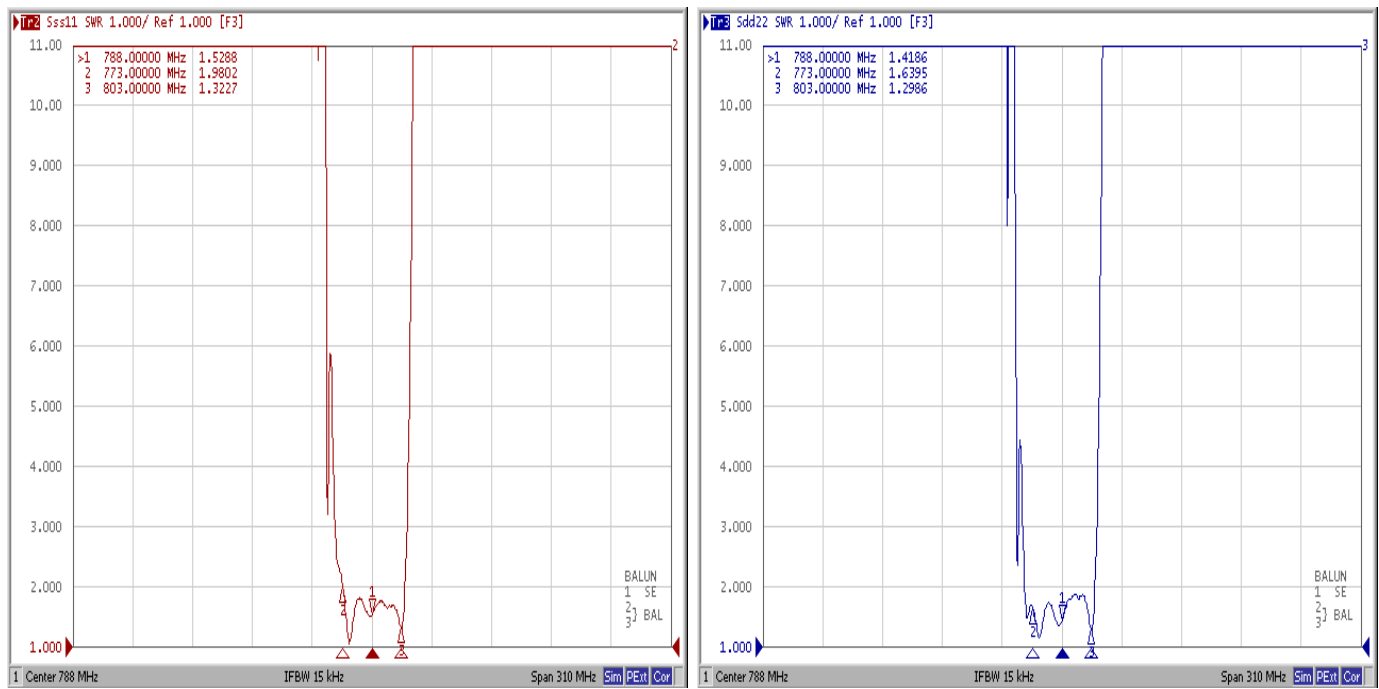
Notes : (1) With Matching.

C. FREQUENCY CHARACTERISTICS:

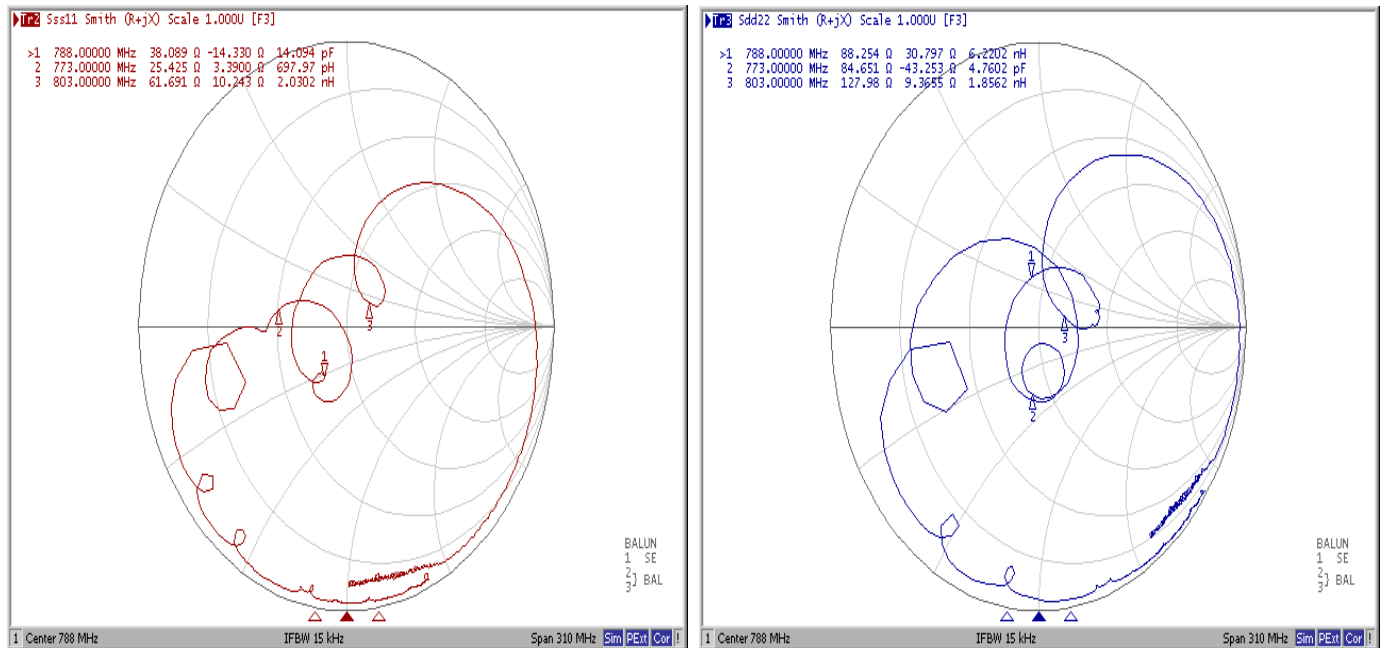
1. Frequency Response



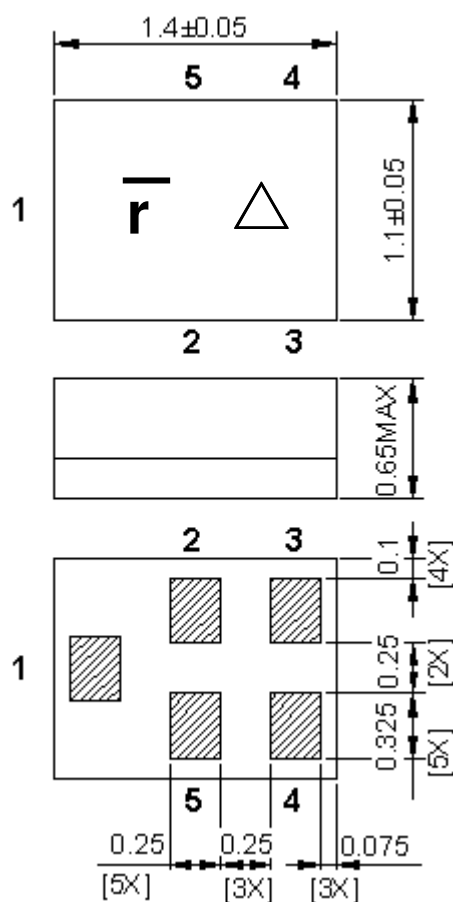
2. VSWR



3. Smith Chart



D. Outline Drawing :



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

1 to 5 : Pin No.

Unit : mm

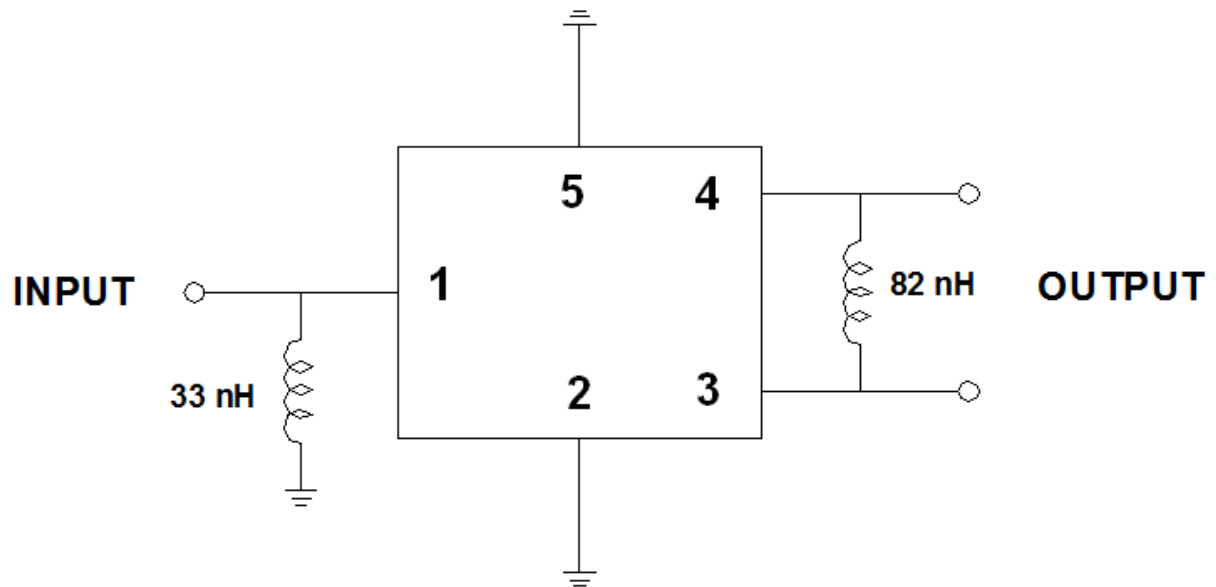
Pin Description	
1	Input
3,4	Balanced Output
2,5	Ground

Marking Descriptions	
$\overline{r}$	Series Number
$\triangle$	Date Code(Year+Month)

Date Code: (Follow the table)

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
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
2017	<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	<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	<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	<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>

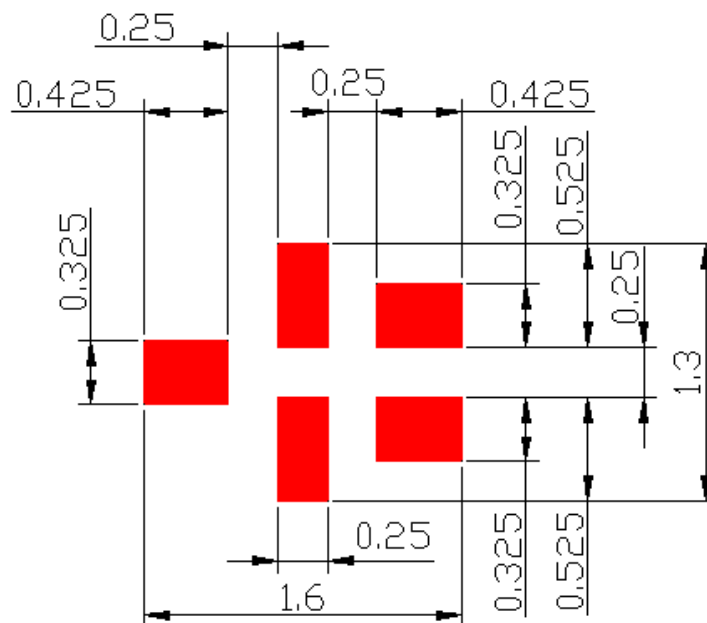
E. Matching Circuit :



Source Impedance: 50Ω

Load Impedance: 100Ω

PCB Footprint:



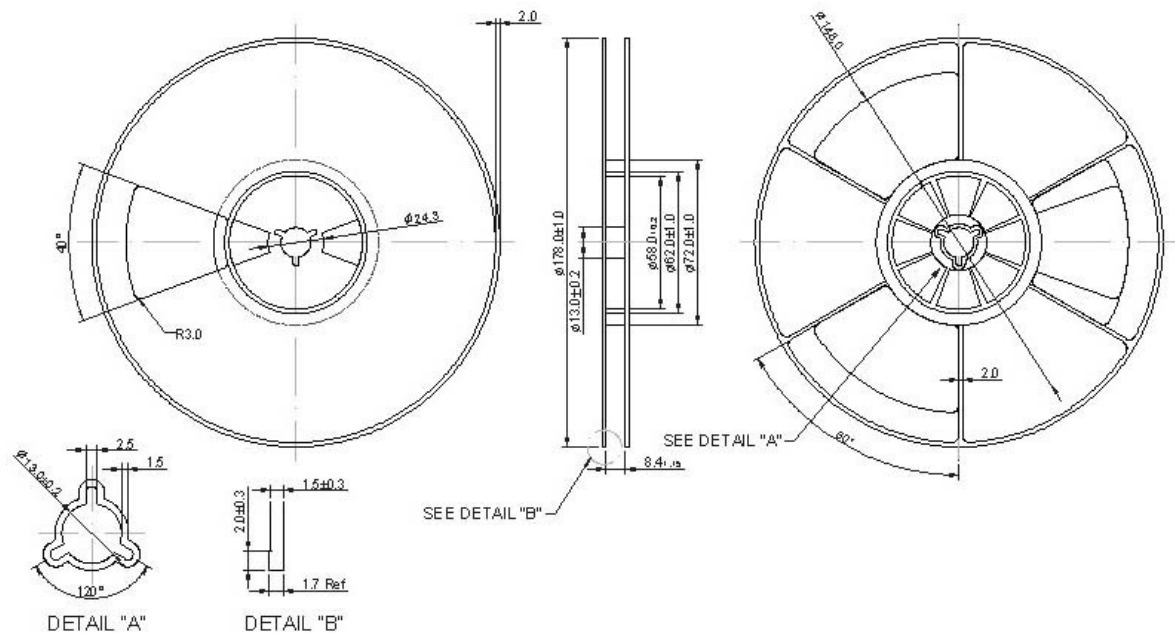
: Land Pattern

Unit : mm

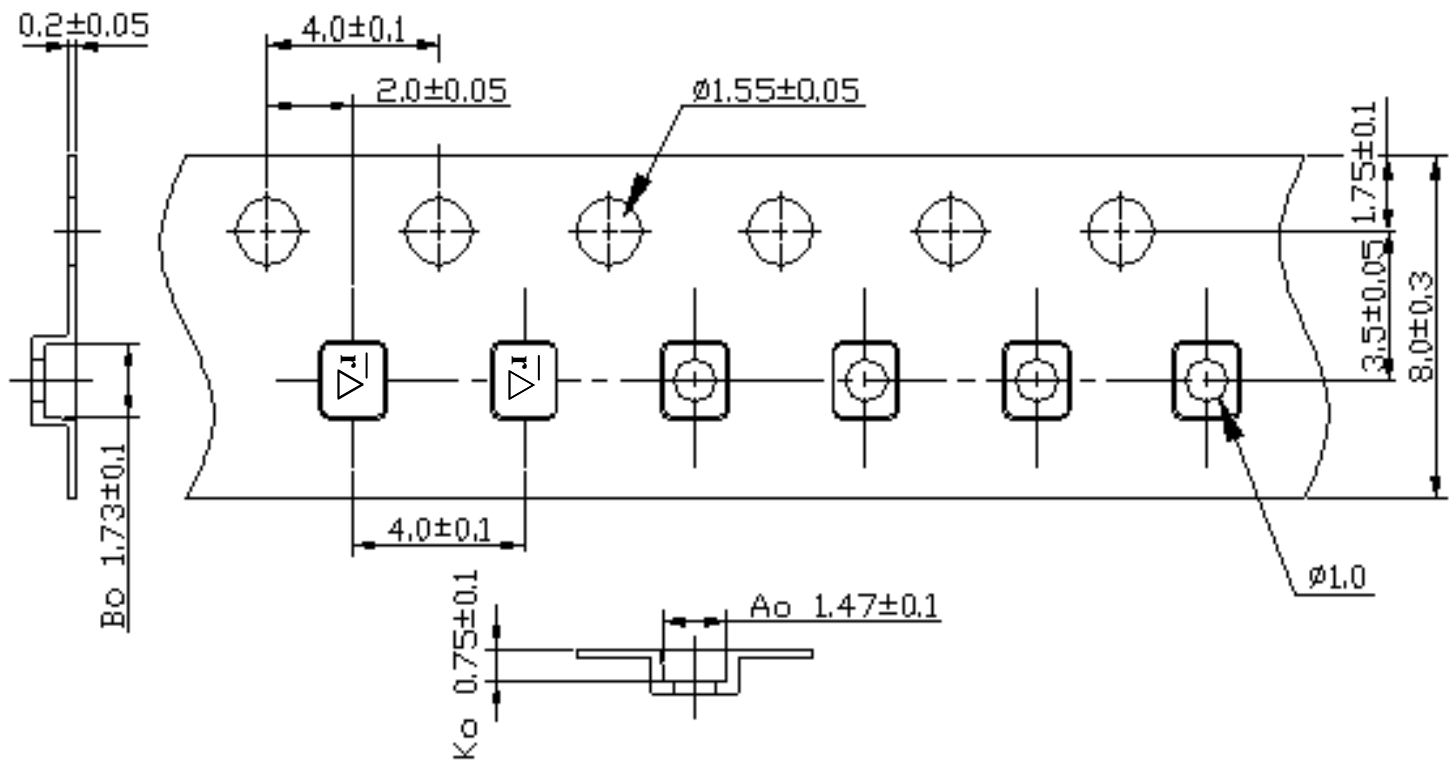
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



G . 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 245~260°C peak (min. 10sec).
4. Time : 2 times.

