



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 Name: IF SAW Filter 133.2 MHz SMD 7.0x5.0 mm (BW=0.2 MHz)

TST Parts No.: TB0816A

Customer Parts No.: _____

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

Checked by: _____ Hayley Chou *Hayley Chou*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/03/31

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 133.2 MHz

MODEL NO.: TB0816A

REV. NO.:2.0

A. MAXIMUM RATING:

1. Input Power Level: 18 dBm
2. DC Voltage: 3 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 1 (MSL 1)

RoHS Compliant

Lead-free soldering

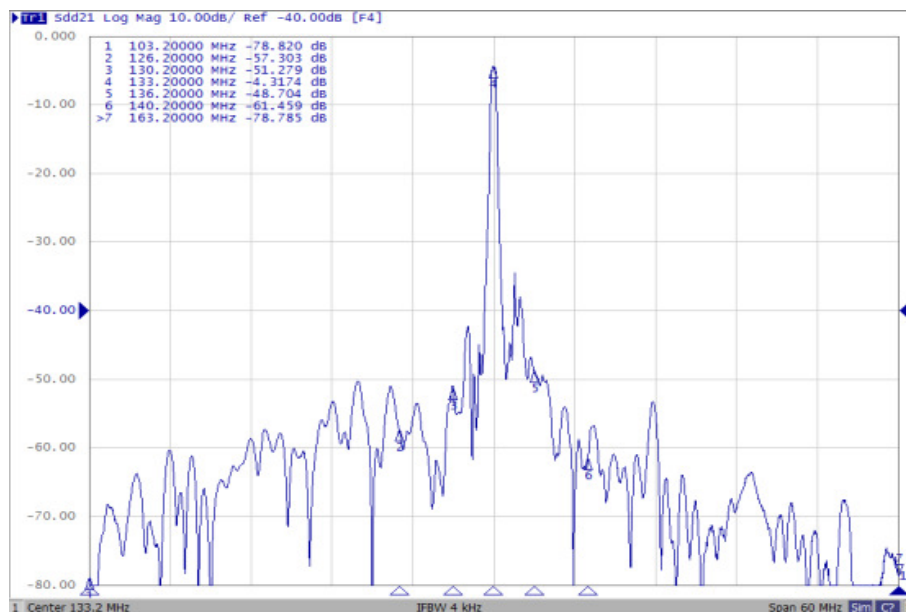
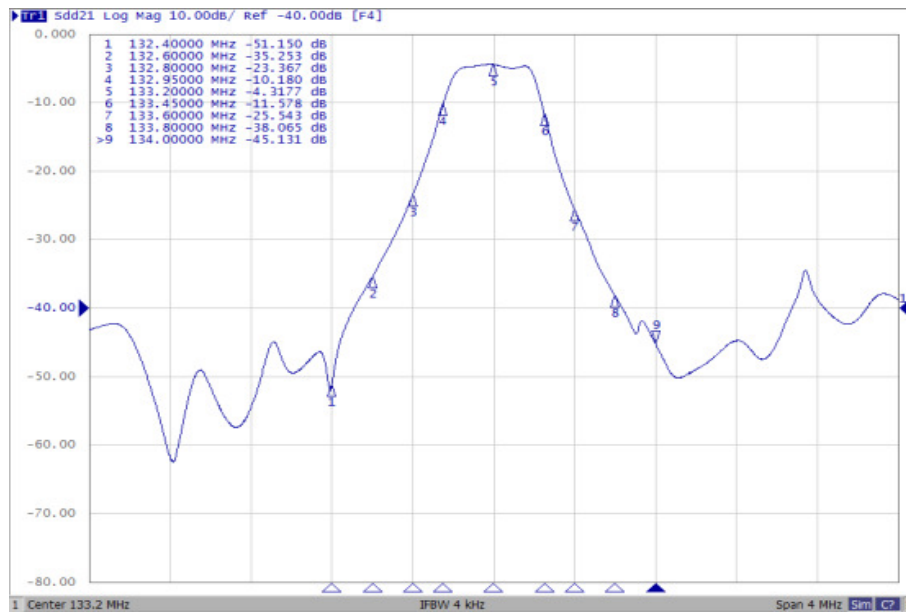
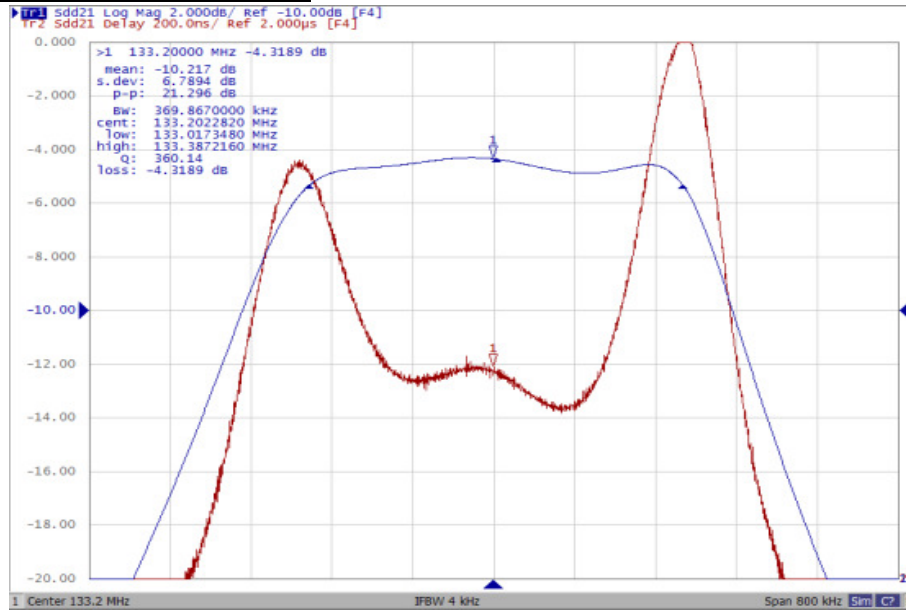
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

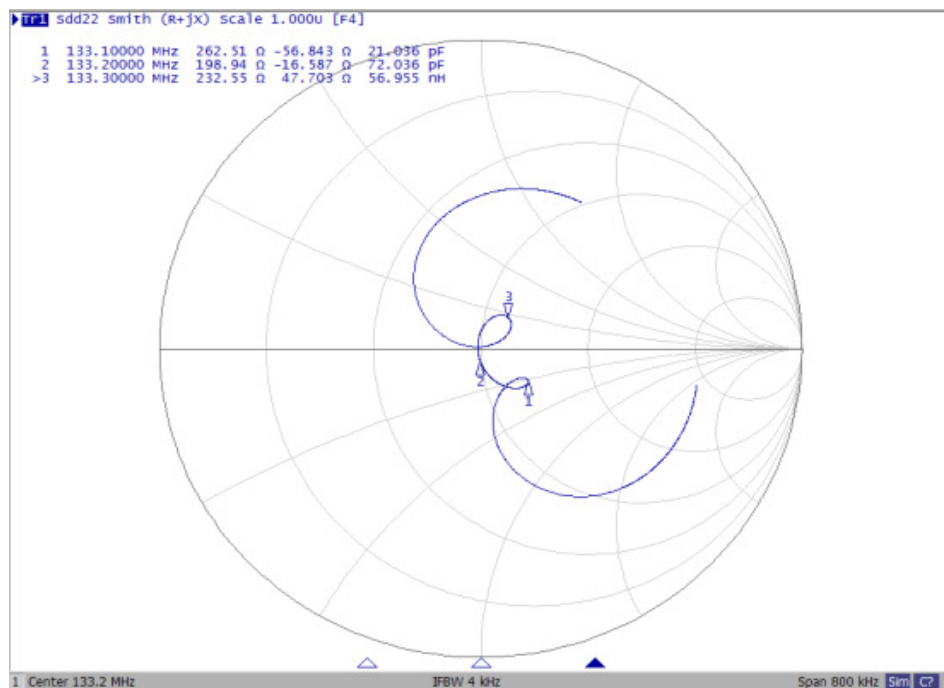
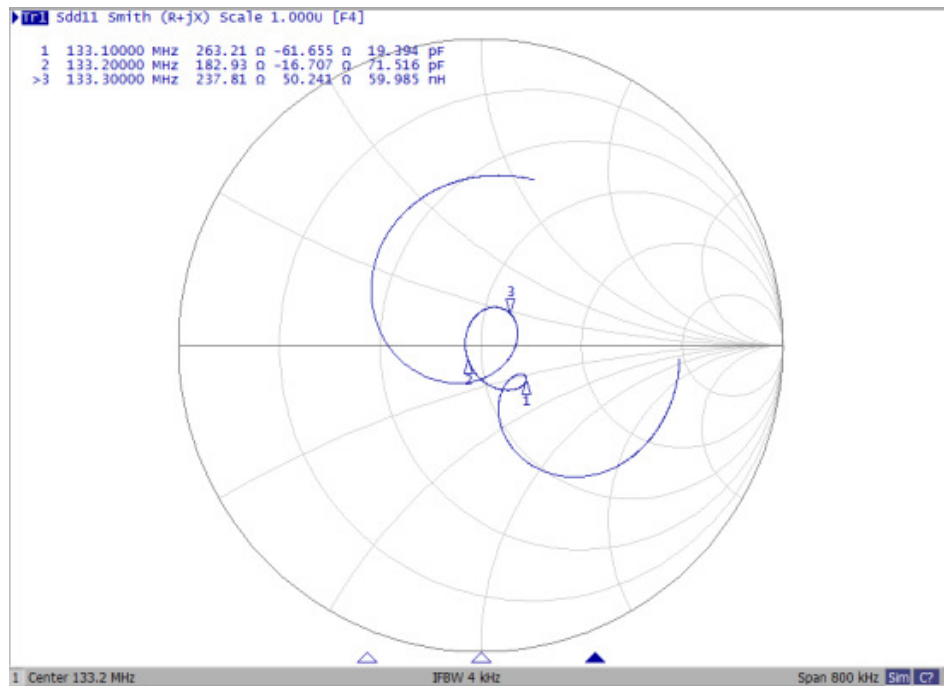
Ambient Temperature: 25 °C

Item	Unit	Min.	Typ.	Max.
Center Frequency	MHz	-	133.2	-
Temperature Coefficient of Frequency	ppm/°C	-	-0.036	-
Insertion Loss at Fo (including losses in matching circuit)	MHz	-	4.4	8.0
Amplitude Ripple Variation (Fo+/-100 kHz)	dB _{p-p}	-	0.6	1.0
Group Delay Variation (Fo+/-100 kHz)	nsec	-	250	1000
Relative Attenuation				
Fc±250 kHz ~ Fc±400 kHz	dB	3	5	-
Fc±400 kHz ~ Fc±600 kHz	dB	15	19	-
Fc±600 kHz ~ Fc±800 kHz	dB	20	30	-
Fc±800 kHz ~ Fc±3.0 MHz	dB	29	31	-
Fc±3.0 MHz ~ Fc±7.0 MHz	dB	35	44	-
Fc±7.0 MHz ~ Fc±30.0 MHz	dB	40	46	-
Source Impedance (Single/Balanced)	Ω	-	50/200	-
Load Impedance (Single/Balanced)	Ω	-	50/200	-

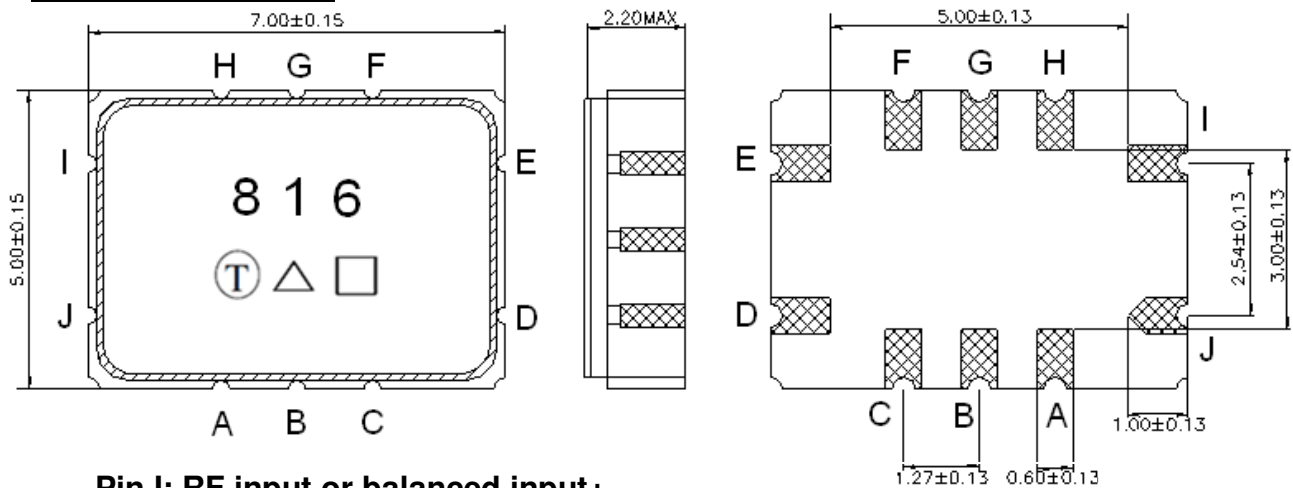
C. FREQUENCY CHARACTERISTIC:



Reflection Functions:



D. OUTLINE DRAWING:



Pin I: RF input or balanced input+

Pin J: Ground or balanced input-

Pin D: RF output or balanced output+

Pin E: Ground or balanced output-

Pin A, B, C, F, G, H: To be Ground

Unit: mm

△: Product / Year Code

□: Week Code (Follow the Table from planner each year)

Product / Year Code

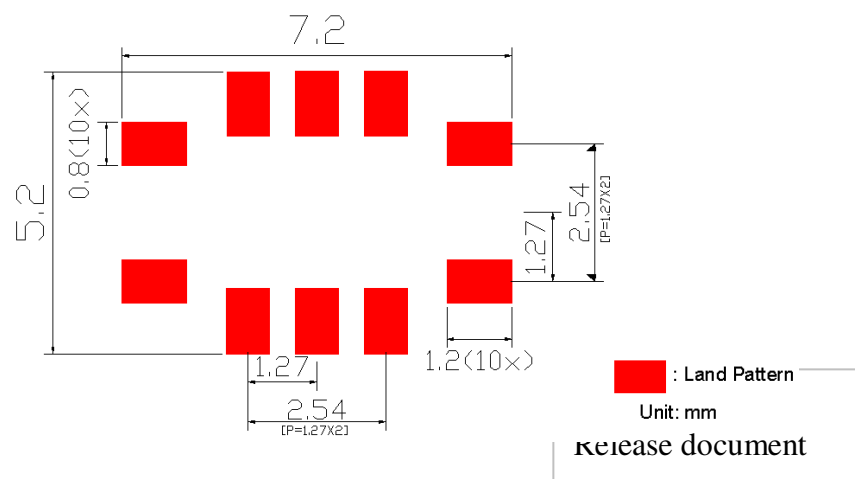
Year	2017 2021	2018 2022	2019 2023	2020 2024
Product Code	B	b	<u>B</u>	<u>b</u>

This table is four-year cycle (ex: Year 2025, △ will show "B")

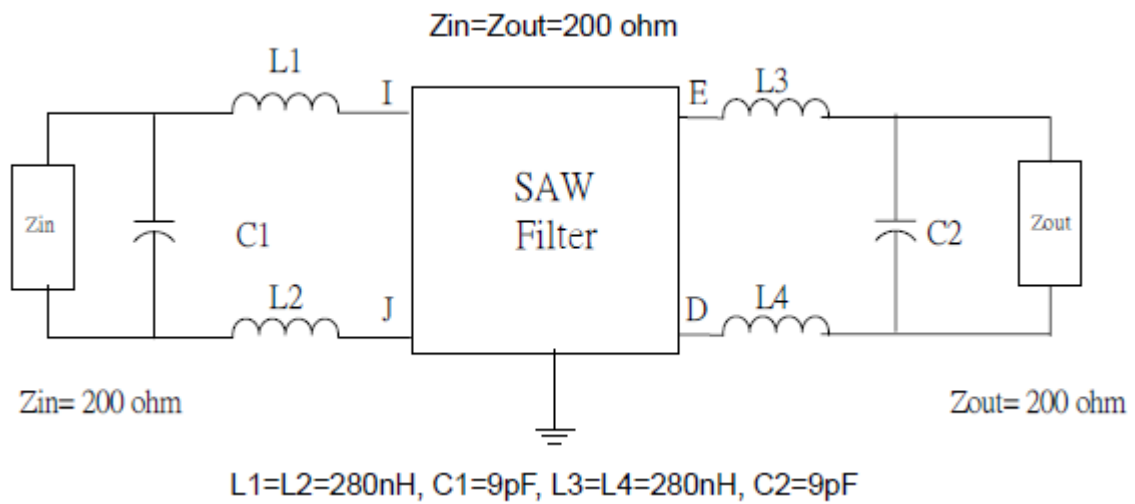
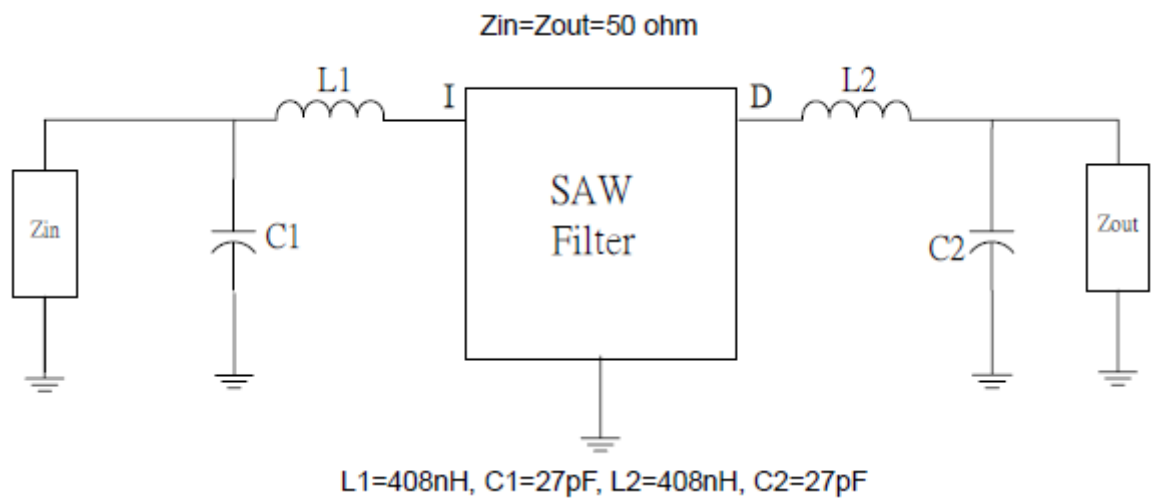
Week Code Table :

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

E. PCB Footprint:



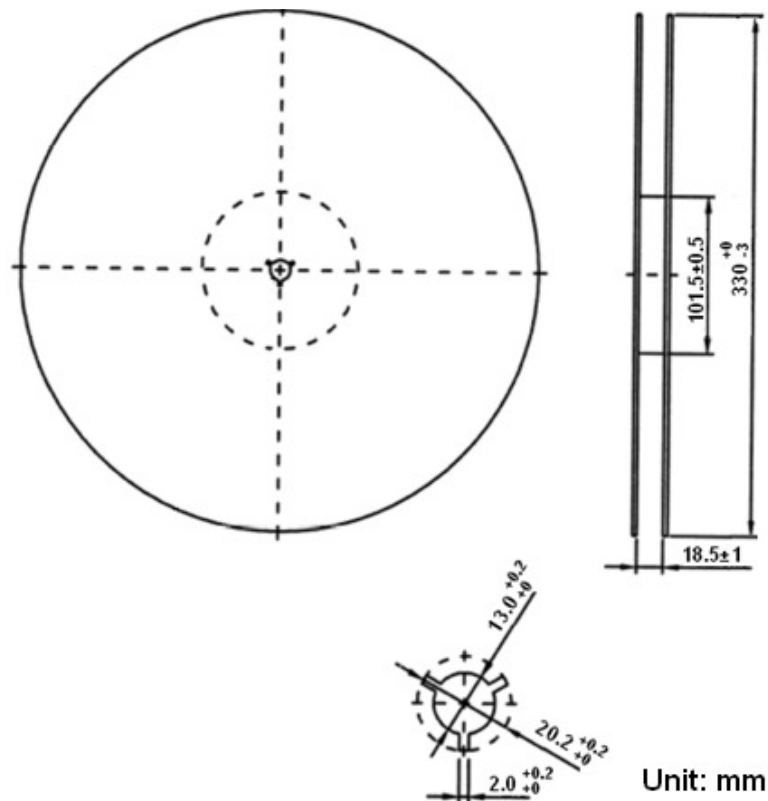
F. MEASUREMENT CIRCUIT:



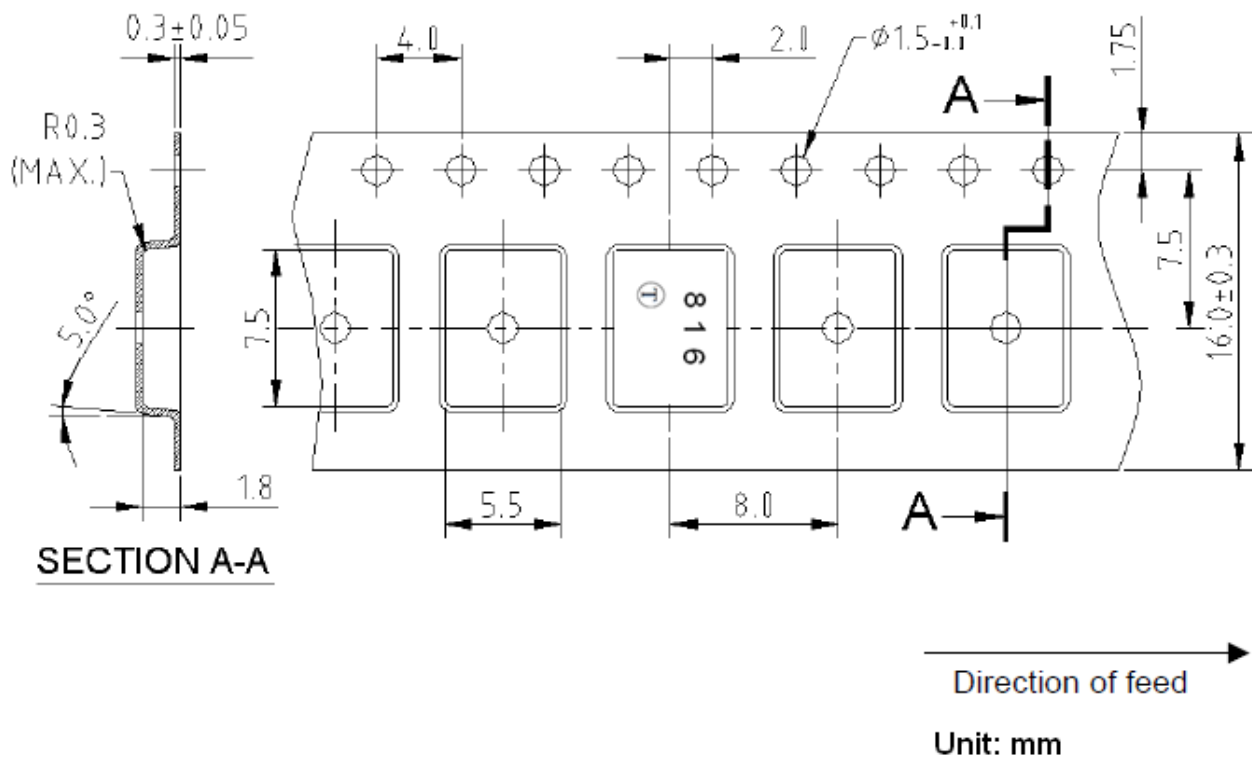
G. PACKING: (Ref. WI-75M03)

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.

