



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 2017.5 MHz SMD 2.0×1.4 mm (BW=15 MHz)

TST Part No.: TA0946A

Customer Part No.: _____

Customer signature required

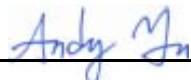
Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Anne Chen 

Approved by: _____ Andy Yu 

Date: _____ 2021/05/14

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 2017.5 MHz

MODEL NO.: TA0946A

REV. NO.:3.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1(MSL1)



Electrostatic Sensitive Device

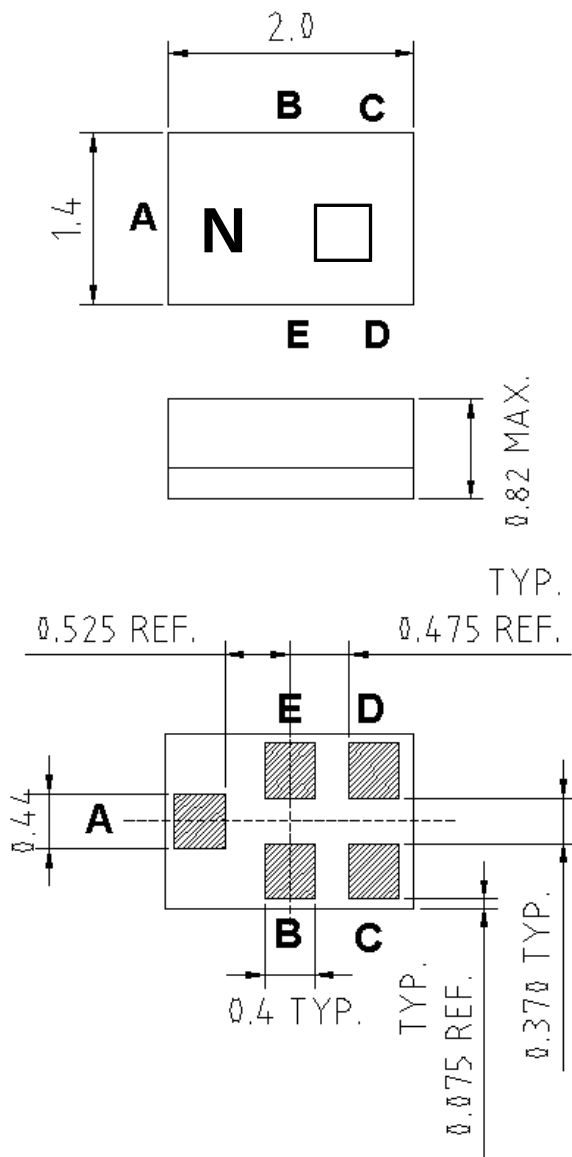
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single-ended): $Z_S=50\Omega$

Terminating load impedance (single-ended): $Z_L=50\Omega$

Item	Unit	Min.	Type.	Max.
Center frequency Fc	MHz	-	2017.5	-
Insertion Loss (2010~2025 MHz) IL	dB	-	1.6	2.5
Amplitude Ripple (2010~2025 MHz)	dB	-	0.3	1.5
VSWR (2010~2025 MHz)	-	-	1.3	2.0
Attenuation (Reference level from 0 dB)				
D.C. ~ 1820 MHz	dB	21	25	-
1820 ~ 1850 MHz	dB	28	33	-
1850 ~ 1950 MHz	dB	21	28	-
2085 ~ 2400 MHz	dB	21	26	-
2400 ~ 2430 MHz	dB	25	28	-
2430 ~ 3000 MHz	dB	25	28	-
3000 ~ 4010 MHz	dB	28	35	-
4010 ~ 6000 MHz	dB	15	27	-
Temperature coefficient of frequency TCf	ppm /°C	-	-34	-

C. OUTLINE DRAWING:

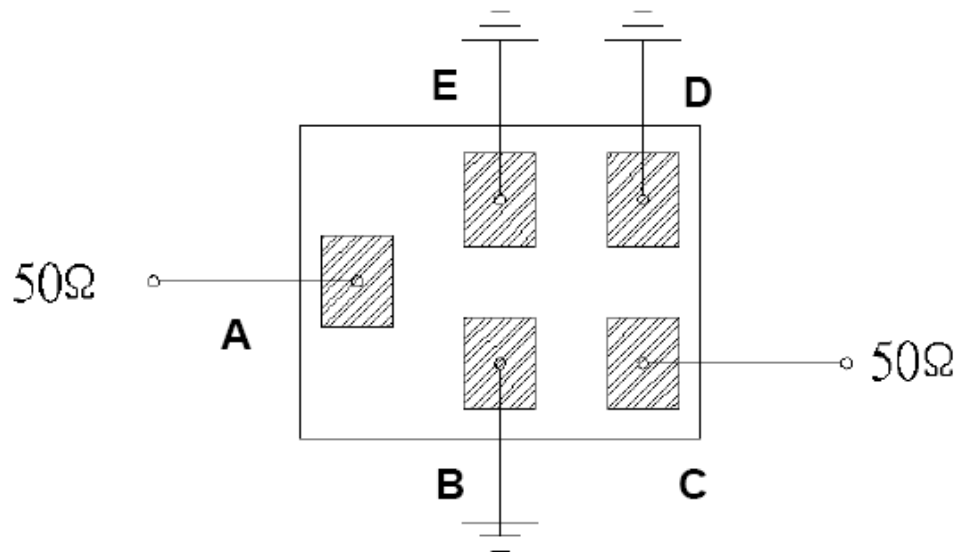


Pin No.	Symbol	Function
A	IN	Input
B	GND	Ground
C	OUT	Output
D	GND	Ground
E	GND	Ground
Unit : mm		

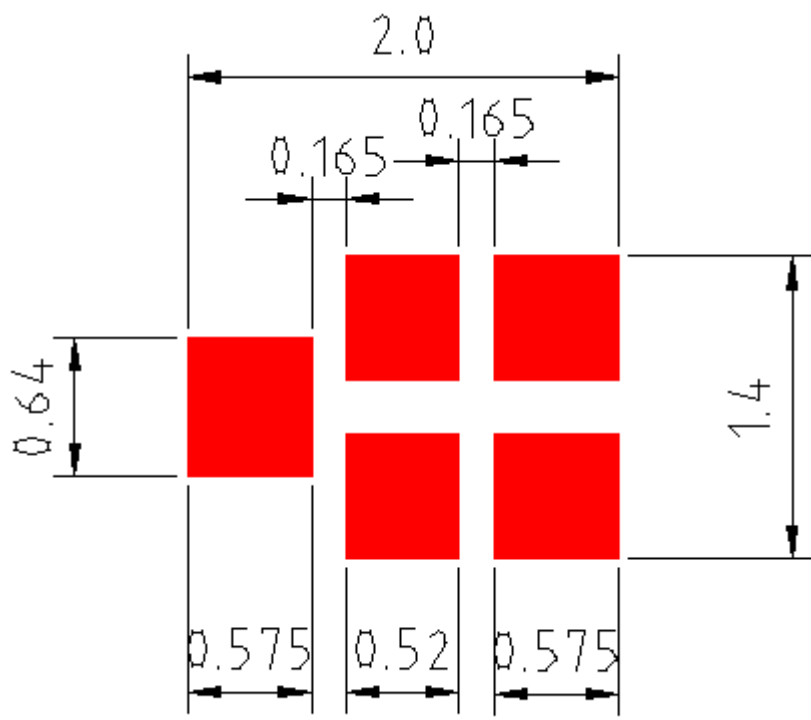
□ : Year/Month Code (Follow the table)

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

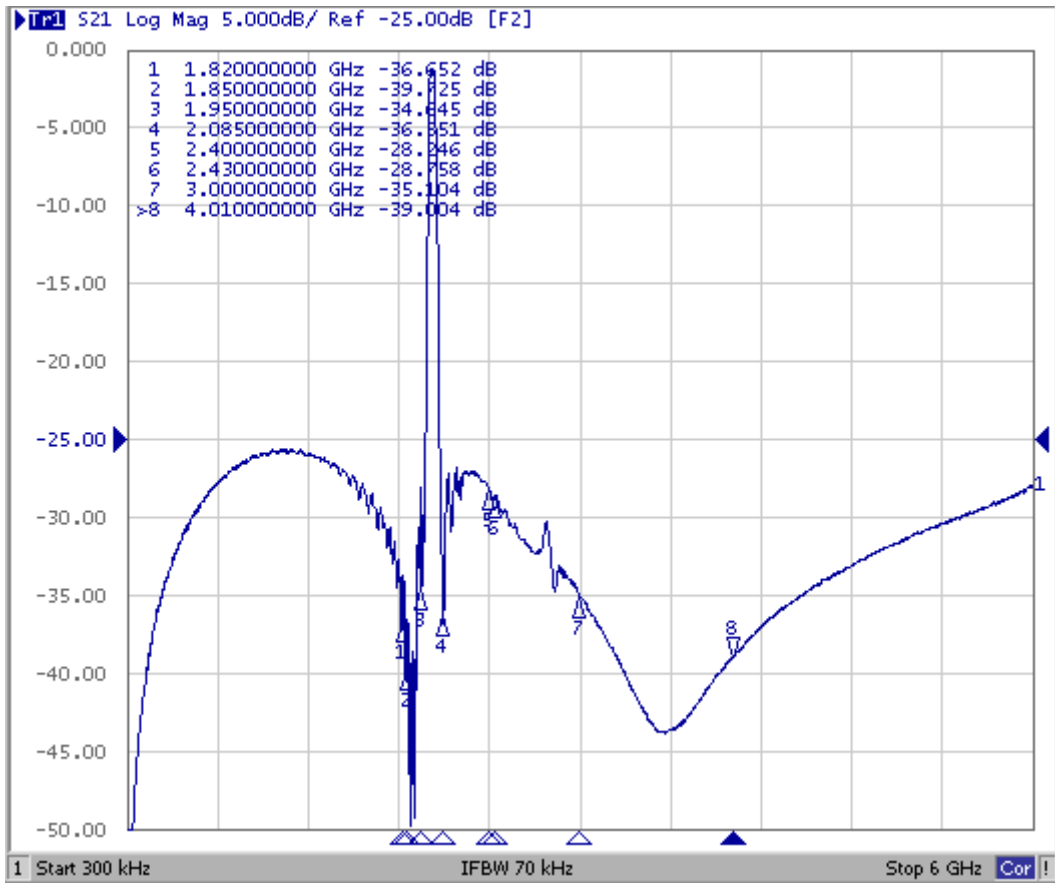
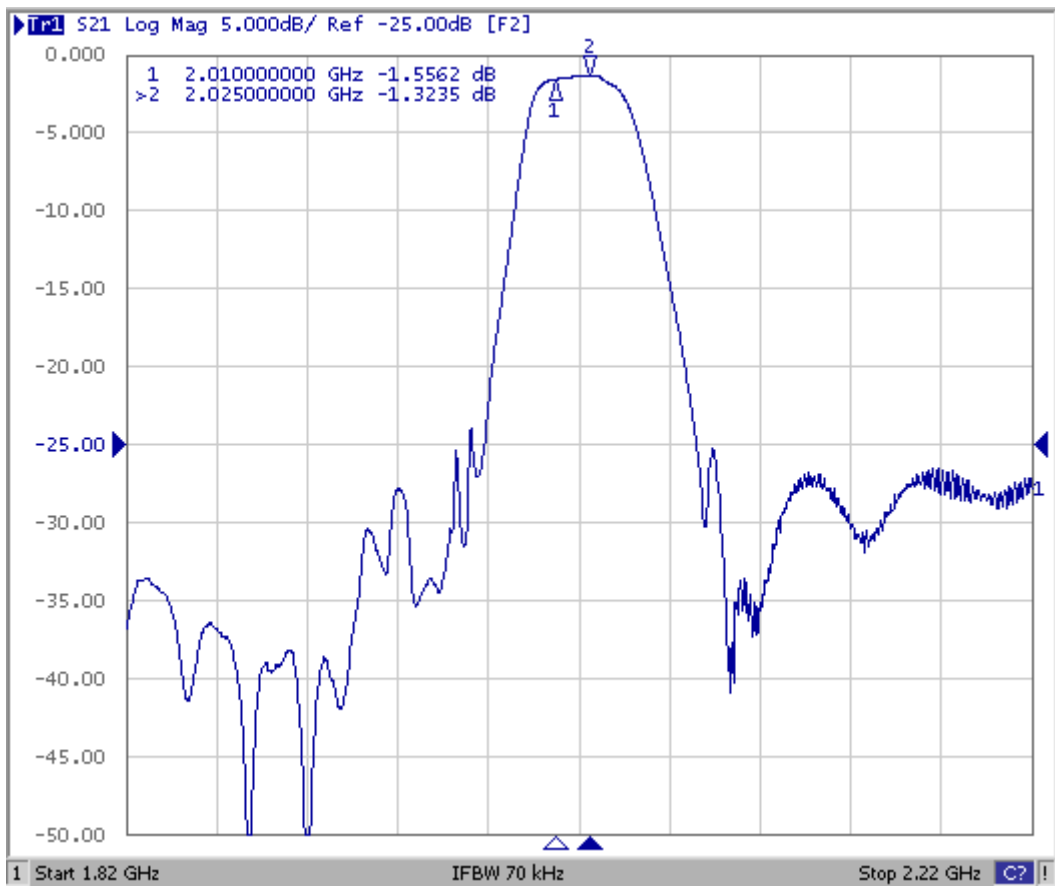
D. MEASUREMENT CIRCUIT:



E. PCB FOOTPRINT:

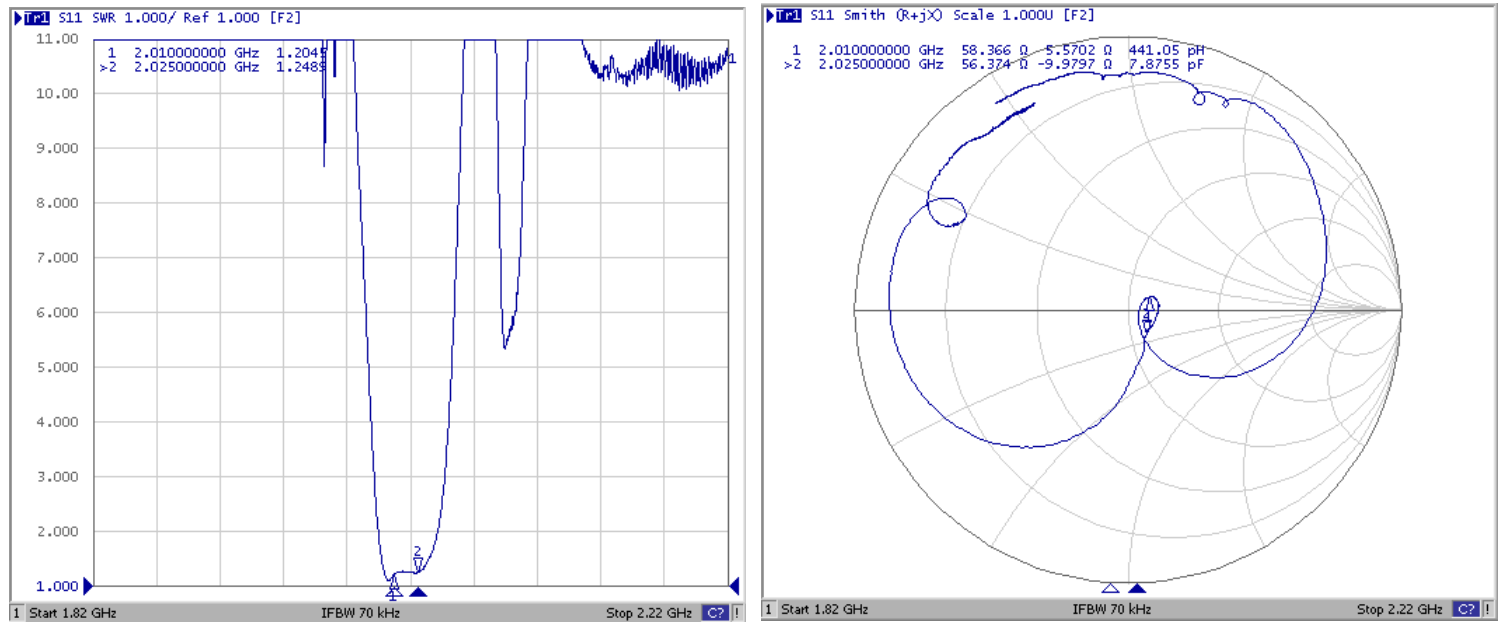


F. Frequency Characteristics:

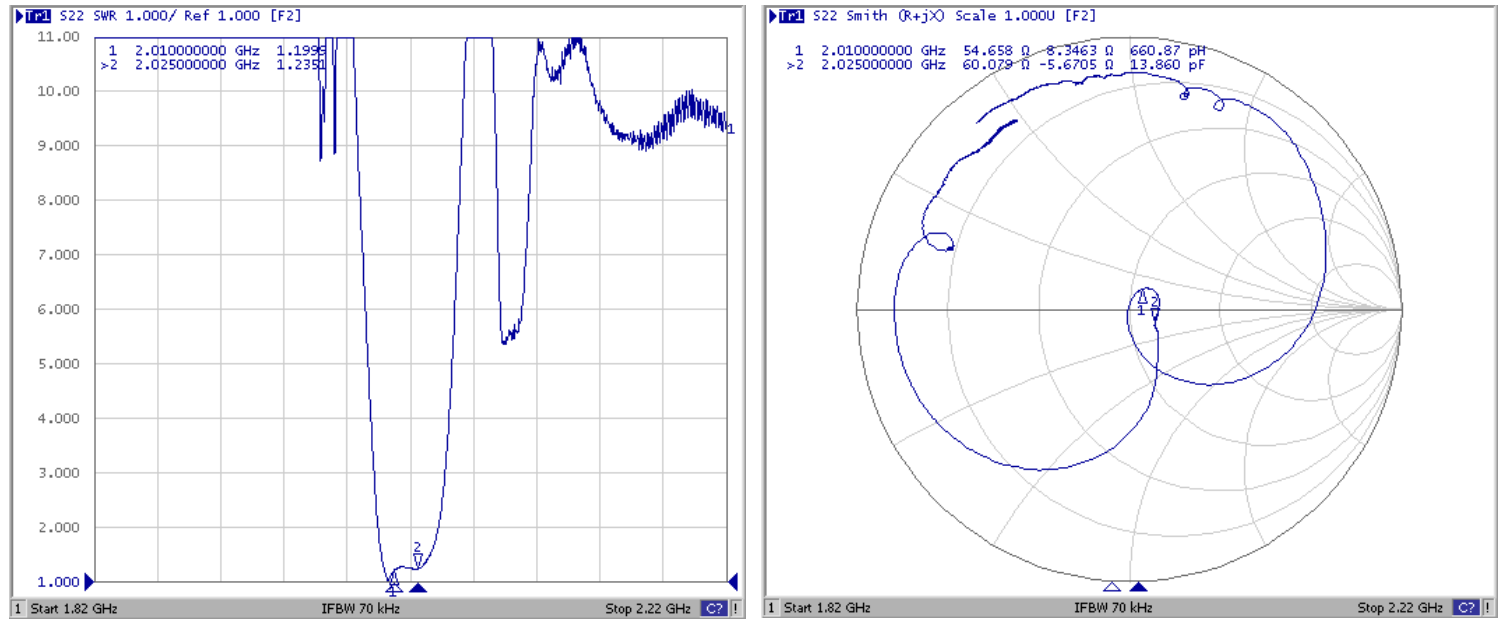


Reflection Functions:

S11



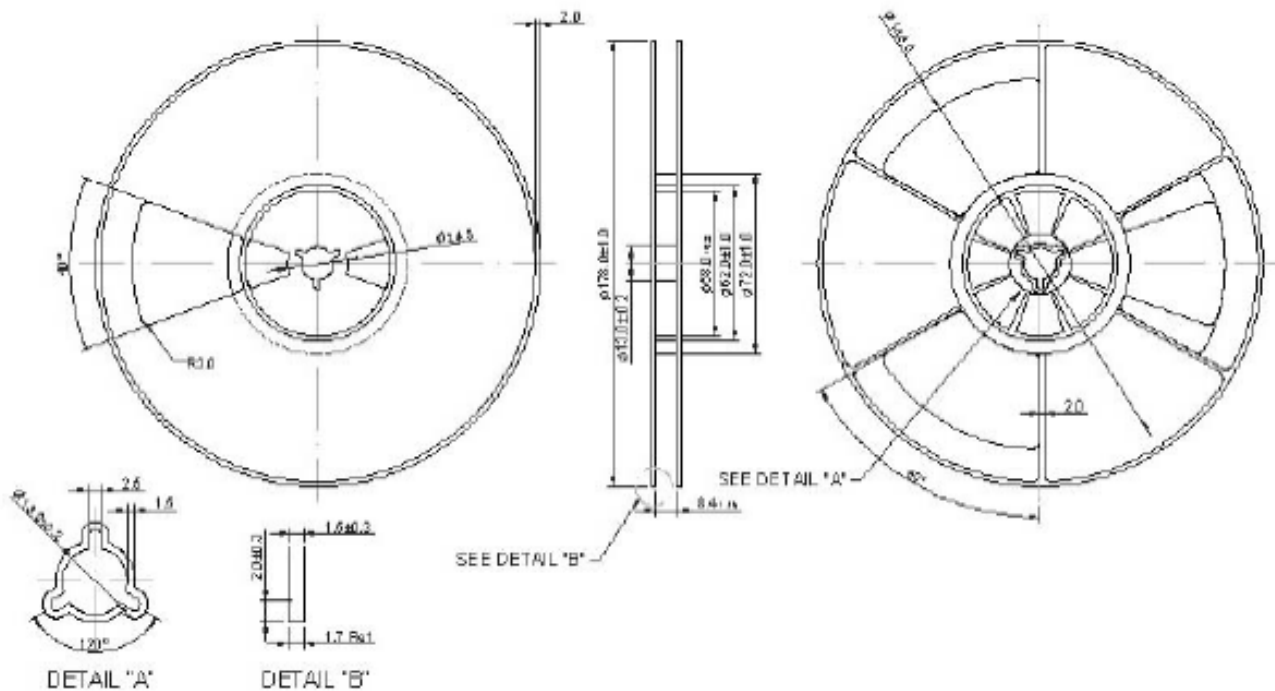
S22



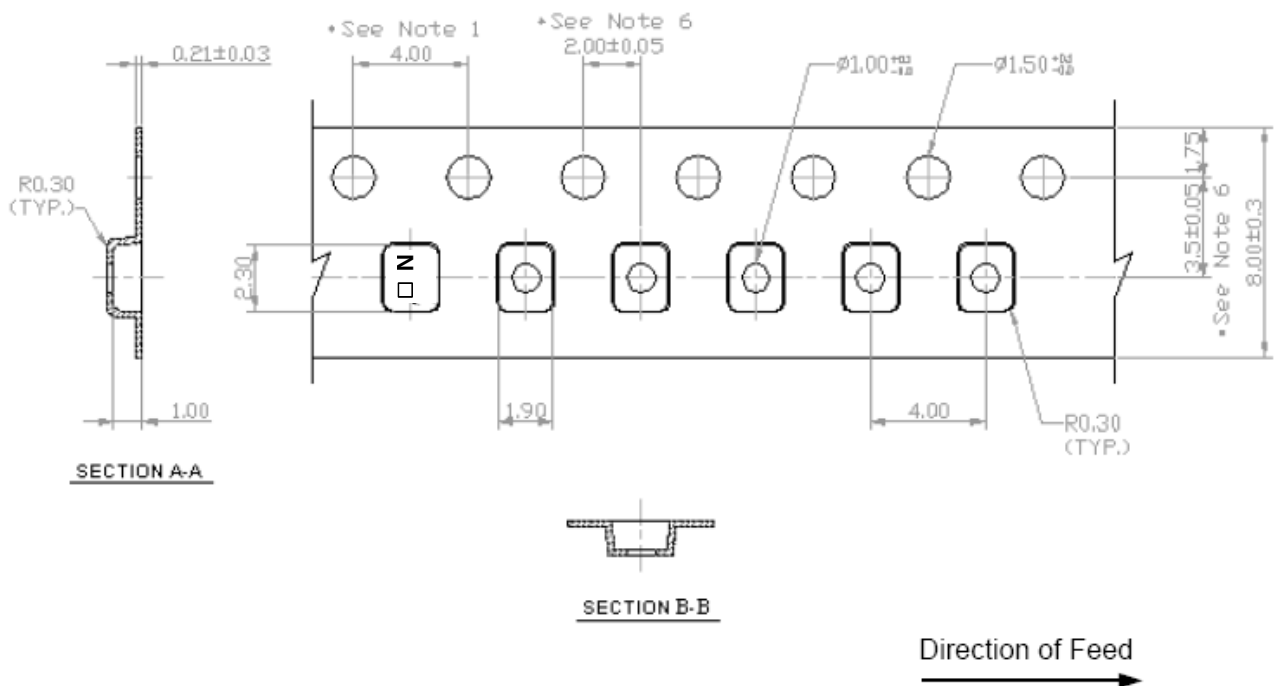
G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)

(Reel Count : 7"=2000)



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.

