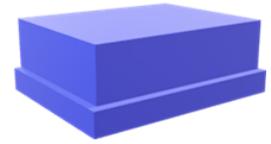


SF2551L

**942.5 MHz
SAW Filter**



SM1109

MAXIMUM RATING:

- Input Power Level: 10 dBm
- DC Voltage: 3 V
- Operating Temperature: -20 °C to +85 °C
- Storage Temperature Range: -40 °C to +85 °C
- Moisture Sensitivity Level: Level 3 (MSL 3)

ELECTRICAL CHARACTERISTICS:

Terminating source impedance: $Z_s = 50//33nH \Omega$ (Single-ended)

Terminating load impedance: $Z_L = 50//33nH \Omega$ (Single-ended)

Item	Unit	Min.	Typ.	Max.
Center Frequency F_c	MHz	-	942.5	-
Insertion Loss (925 ~ 960 MHz) IL	dB	-	2.0	3.2
Amplitude Ripple (925 ~ 960 MHz)	dB _{p-p}	-	0.9	2.3
VSWR (925 ~ 960 MHz)	-	-	1.8	2.1
Attenuation (Reference level from 0 dB)				
880 ~ 915 MHz	dB	35	47	-
980 ~ 1558 MHz	dB	23	31	-
1559 ~ 1607 MHz	dB	40	60	-
1850 ~ 1920 MHz	dB	40	56	-
2400 ~ 2500 MHz	dB	35	51	-
2775 ~ 2880 MHz	dB	35	50	-
3700 ~ 3840 MHz	dB	32	47	-
4625 ~ 4800 MHz	dB	32	52	-
4900 ~ 5950 MHz	dB	30	42	-
5550 ~ 5725 MHz	dB	30	45	-
6475 ~ 6720 MHz	dB	30	36	-
7400 ~ 7680 MHz	dB	20	33	-

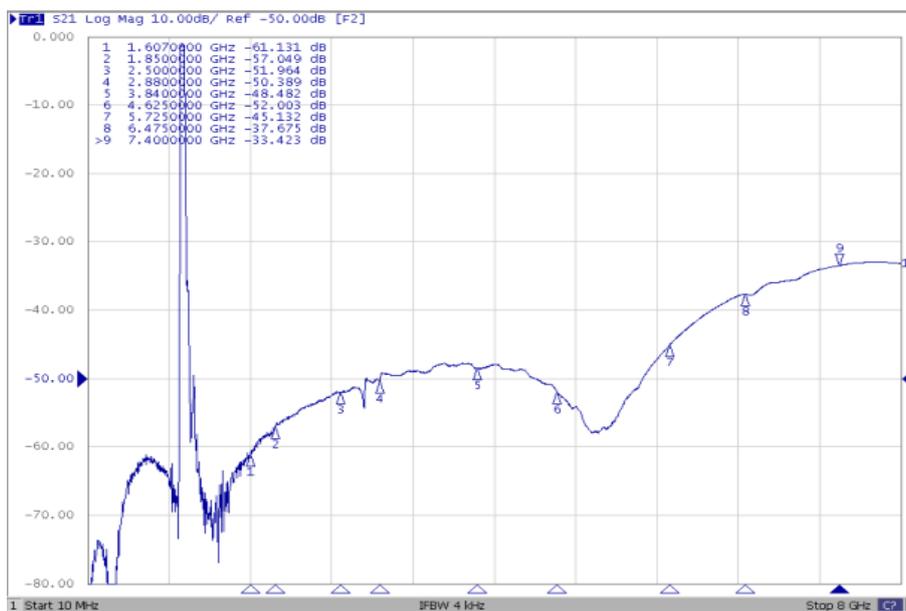
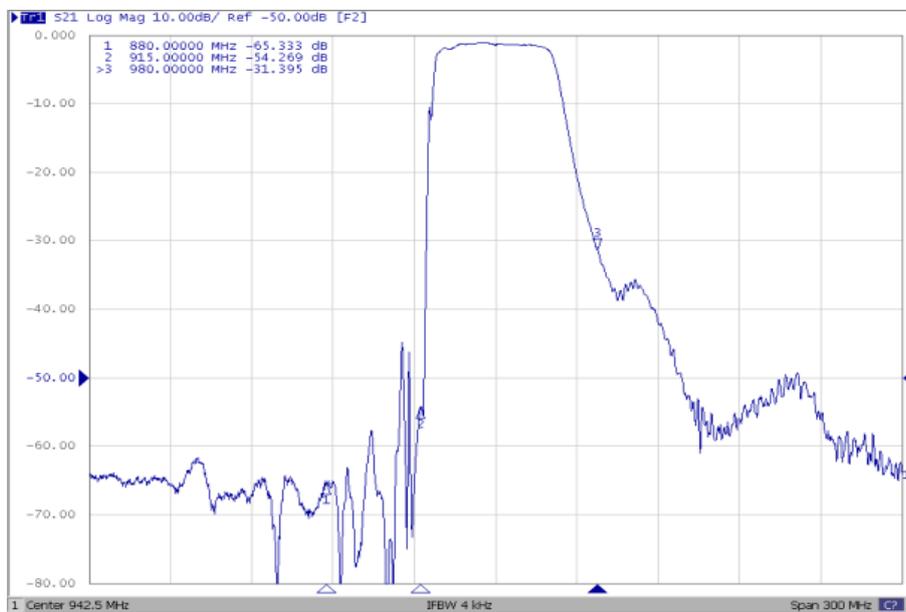
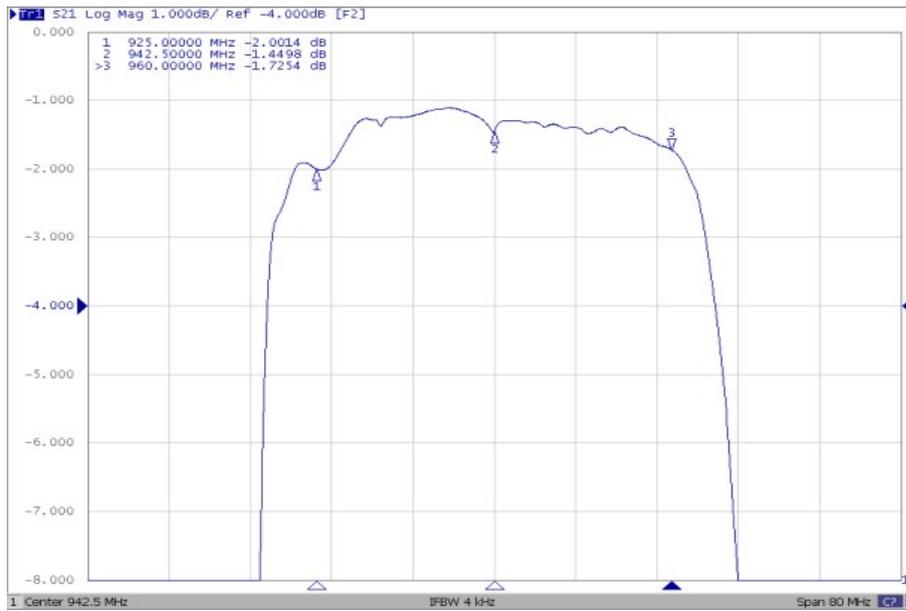


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

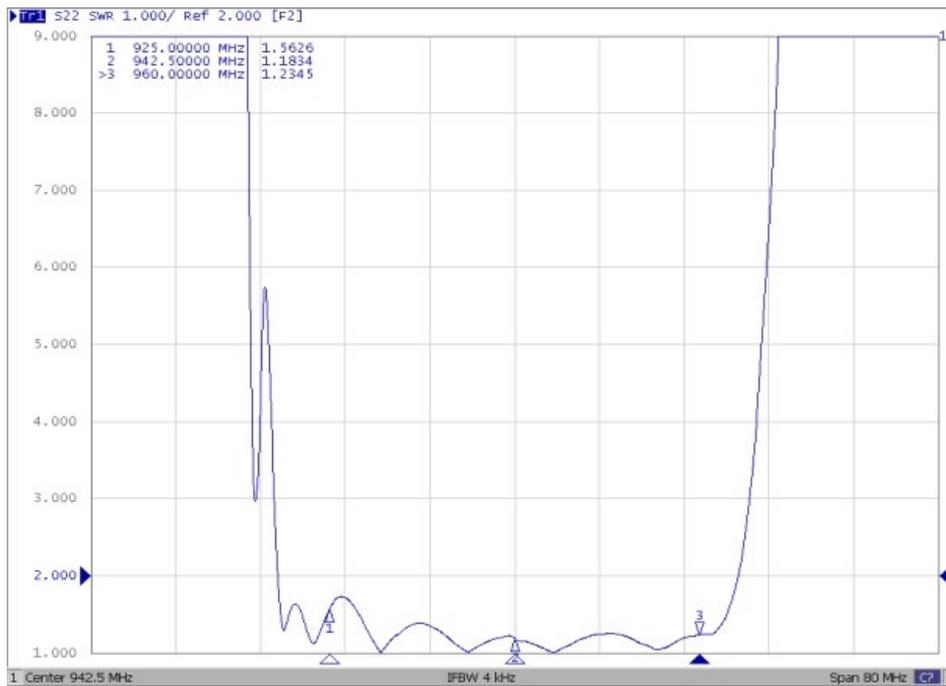
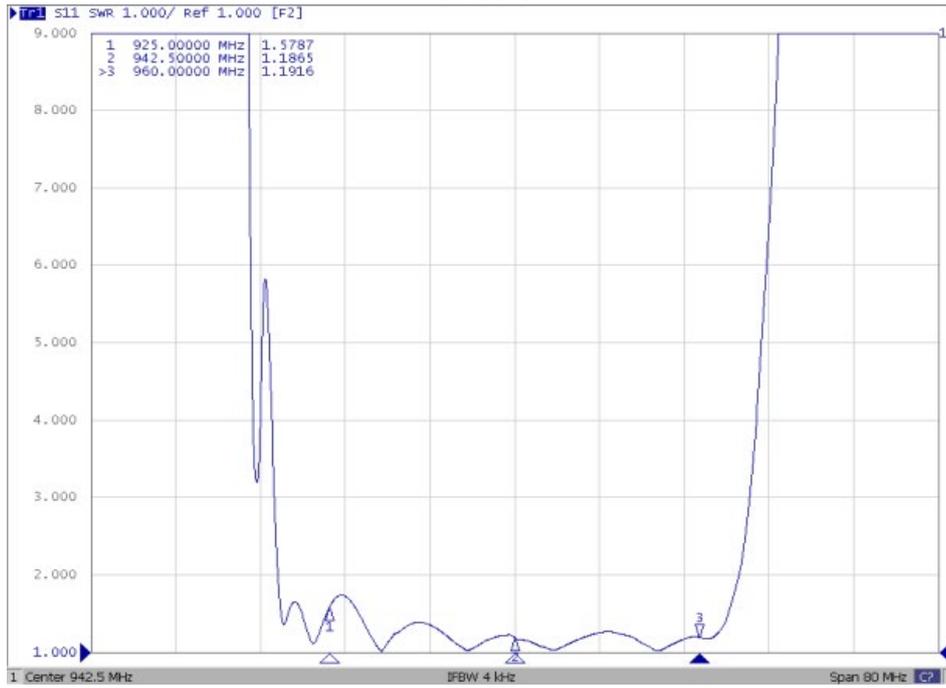
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTIC:

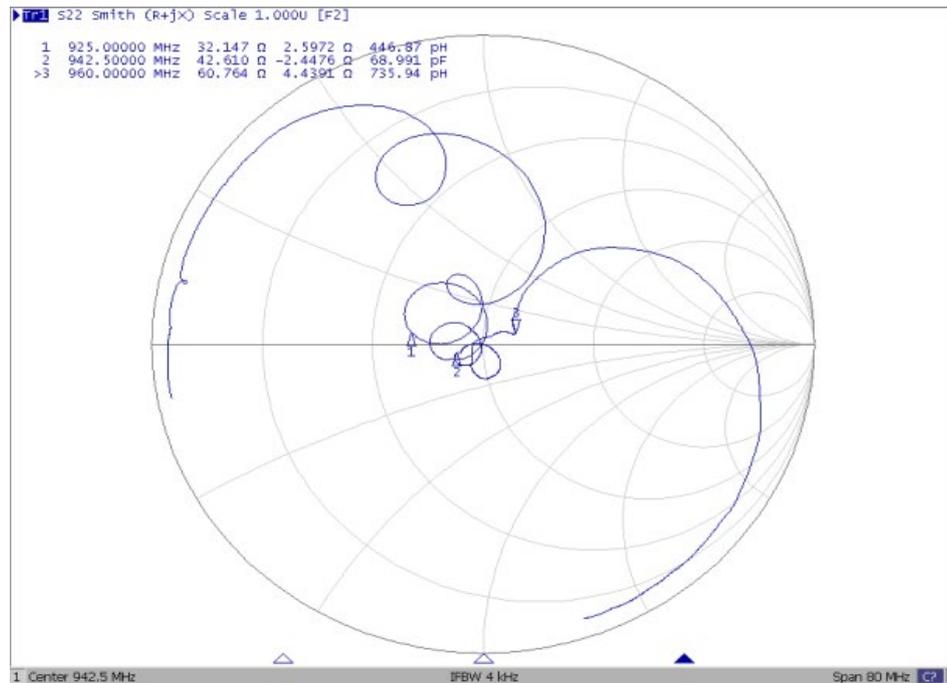
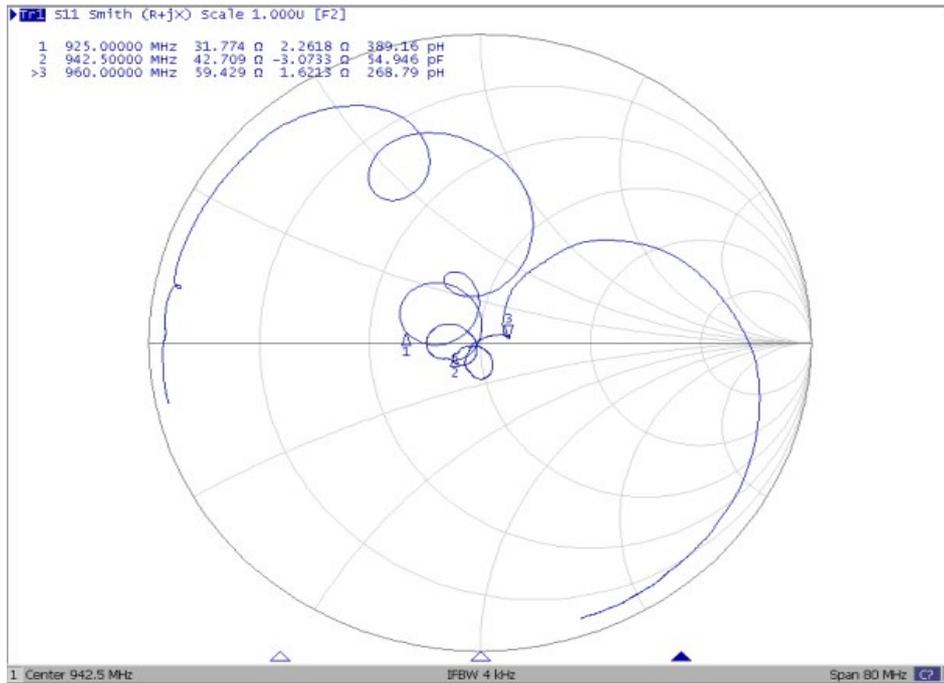


Reflection Functions:

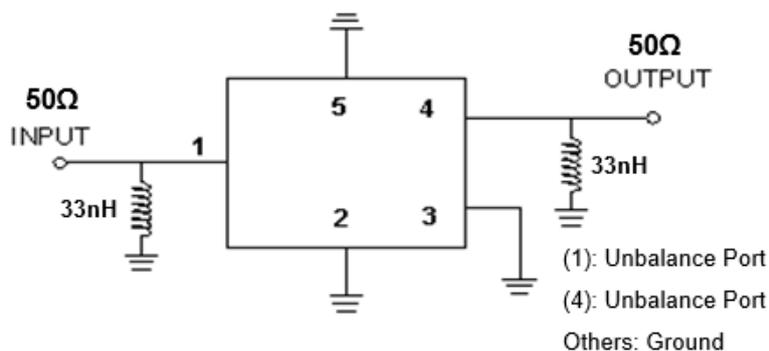
VSWR



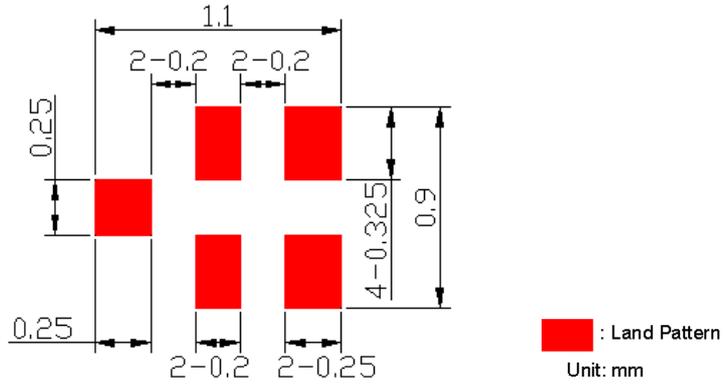
Smith Chart



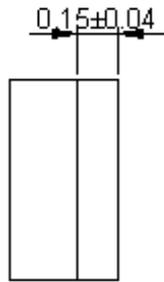
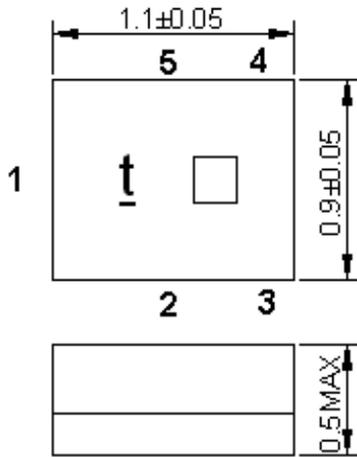
MEASUREMENT CIRCUIT:



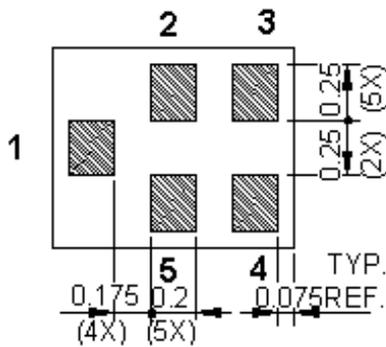
PCB Footprint:



OUTLINE DRAWING:



All tolerances are ± 0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 5 : Pin No.
 Unit : mm



Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

Marking description:

t : part symbol (small letter)

□: Year/Month Code

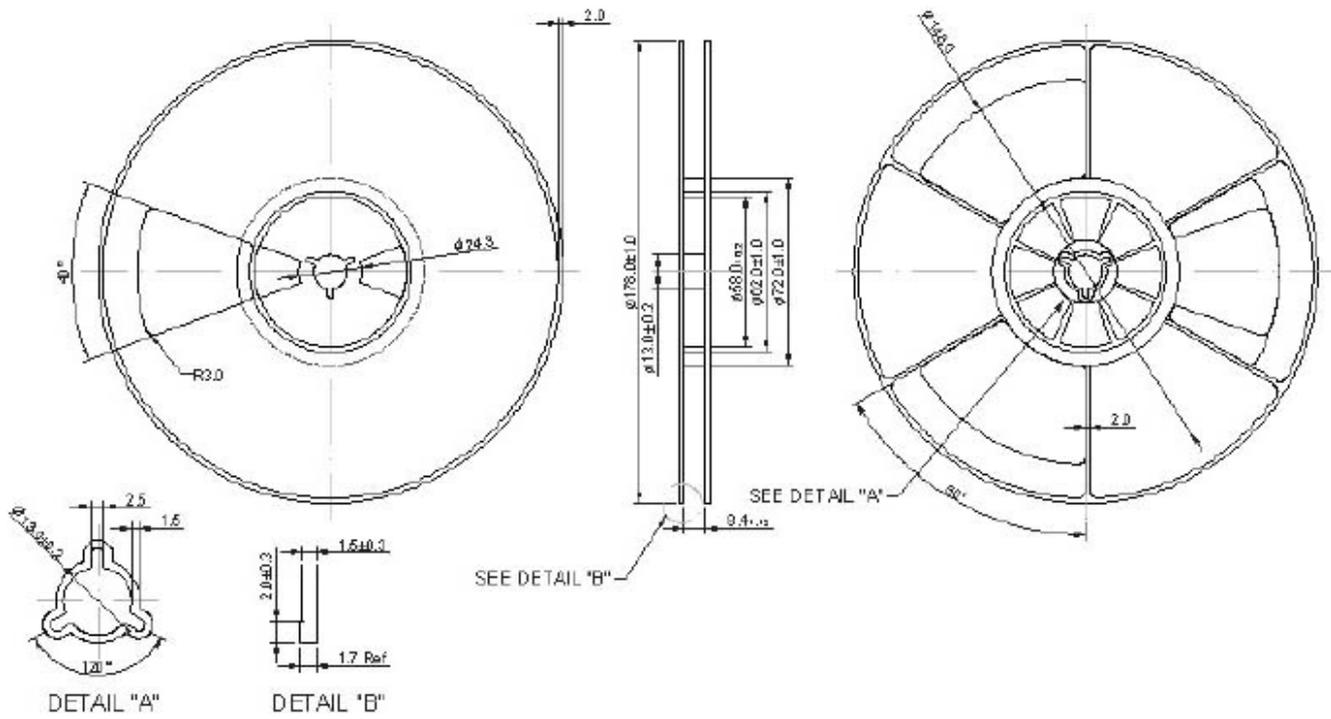
□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
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>i</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>

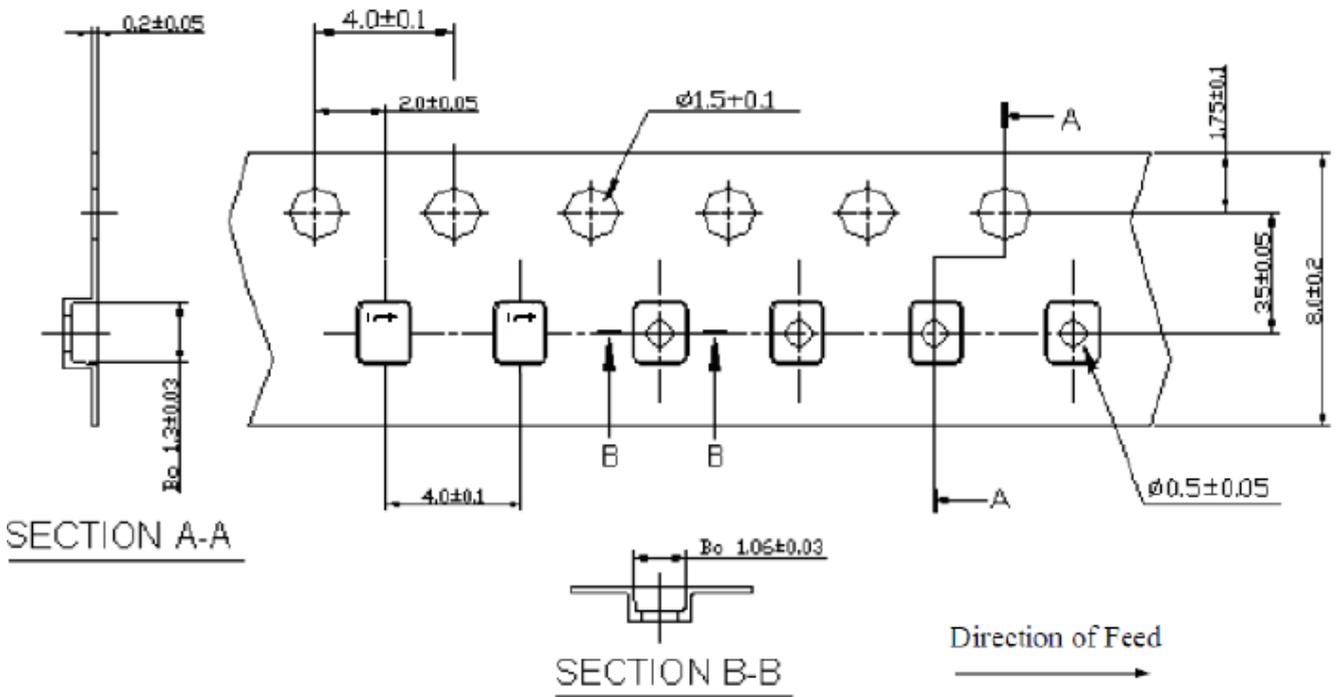
PACKING

Reel Count
 7" = 3000
 13" = 10,000

REEL DIMENSION



TAPE DIMENSION



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.

