

SF2576L

**2605 MHz
SAW Filter**



SM1109

MAXIMUM RATING

- Maximum Input Power: 28.5 dBm, 5000h 55 °C
- Maximum DC Voltage: 3 V
- Operating temperature range: -20 °C to +85 °C
- Storage temperature range: -40 °C to +85 °C
- Moisture Sensitivity Level: 3

ELECTRICAL CHARACTERISTICS

Terminating source impedance: $Z_s = 50//3.6nH \Omega$ (Single-ended)

Terminating load impedance: $Z_L = 50//3.6nH \Omega$ (Single-ended)

Item	Unit	Min.	Typ.	Max.
Center Frequency Fc	MHz	-	2605	-
Insertion Loss (2555 ~ 2575 MHz) IL	dB	-	2.8	4.0
Insertion Loss (2575 ~ 2635 MHz) IL	dB	-	2.0	2.5
Insertion Loss (2635 ~ 2655 MHz) IL	dB	-	2.0	2.5
Amplitude Ripple (2555 ~ 2655 MHz)	dB _{p-p}	-	1.5	2.8
VSWR (2555 ~ 2655 MHz)	-	-	2.1	2.4
Attenuation (reference level from 0 dB)				
10 ~ 960 MHz	dB	40	48	-
1225 ~ 1559 MHz	dB	30	36	-
1559 ~ 1606 MHz	dB	30	35	-
1606 ~ 1710 MHz	dB	30	34	-
1710 ~ 2170 MHz	dB	27	31	-
2170 ~ 2400 MHz	dB	27	31	-
2401 ~ 2438 MHz	dB	32	35	-
2421 ~ 2483 MHz	dB	34	37	-
2750 ~ 4900 MHz	dB	30	33	-
4900 ~ 6000 MHz	dB	30	35	-
6000 ~ 8000 MHz	dB	20	29	-

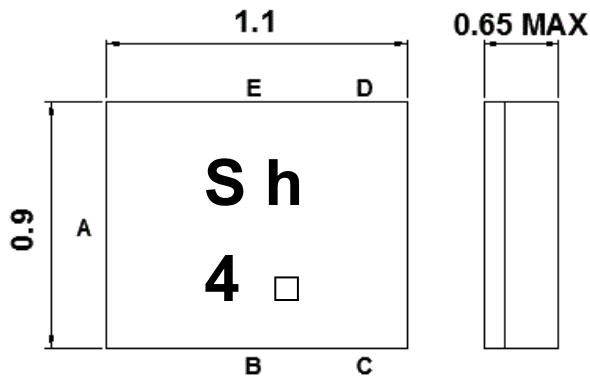
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.



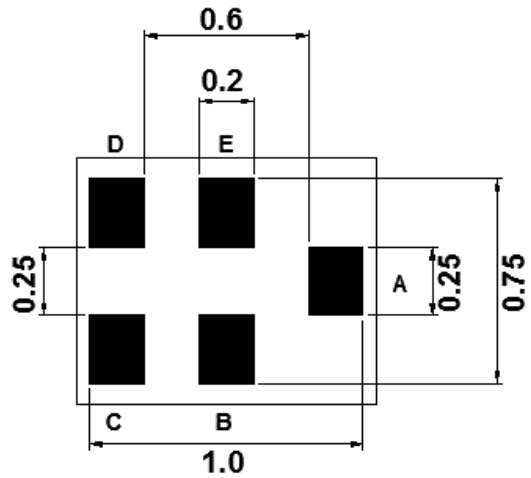
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

OUTLINE DRAWING

top view



bottom view



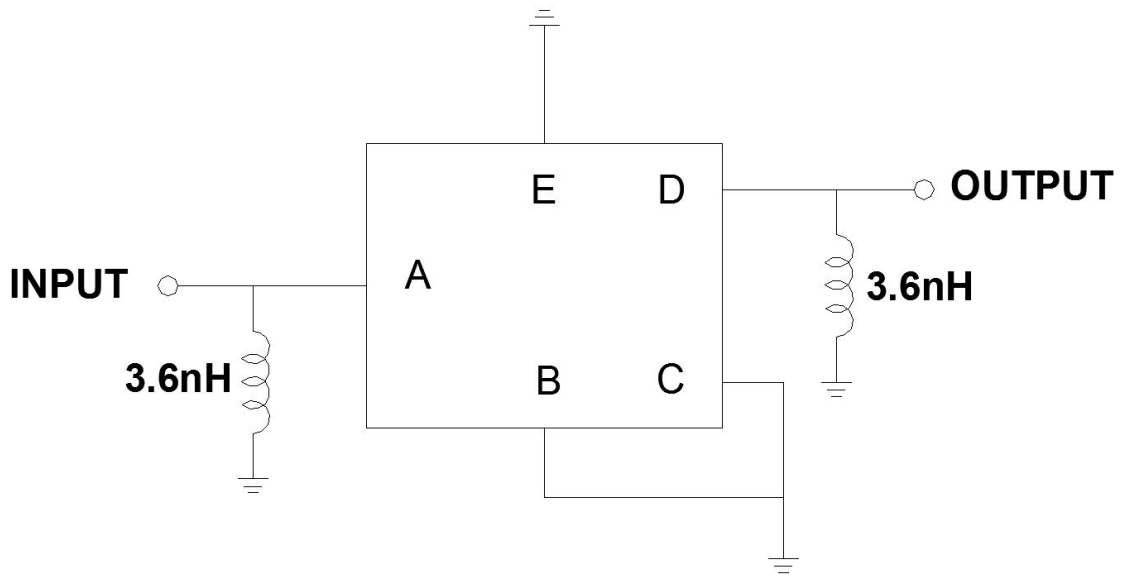
Pin Description	
B, C, E	Ground
A	Input
D	Output

Marking Descriptions	
□	Date Code(Year+Month)

□ : Year/Month Code (Follow the table)

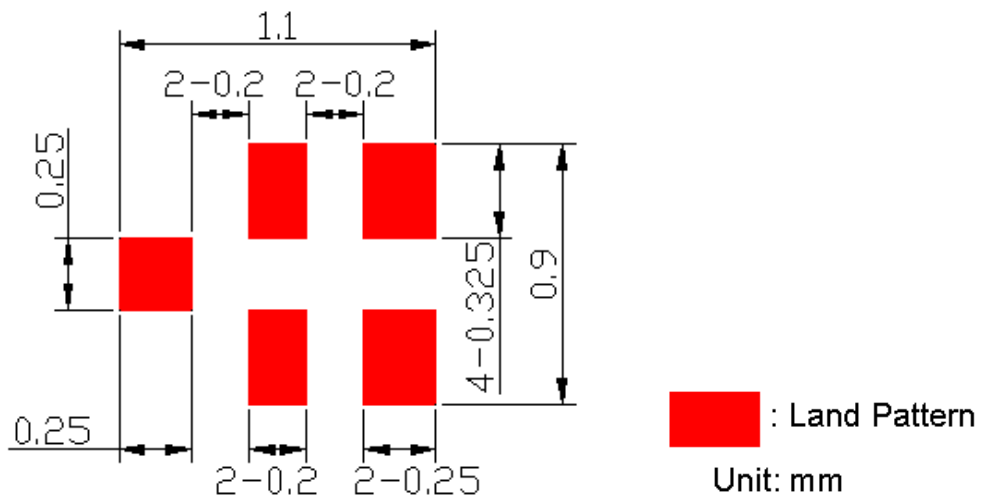
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</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>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>

MEASUREMENT CIRCUIT

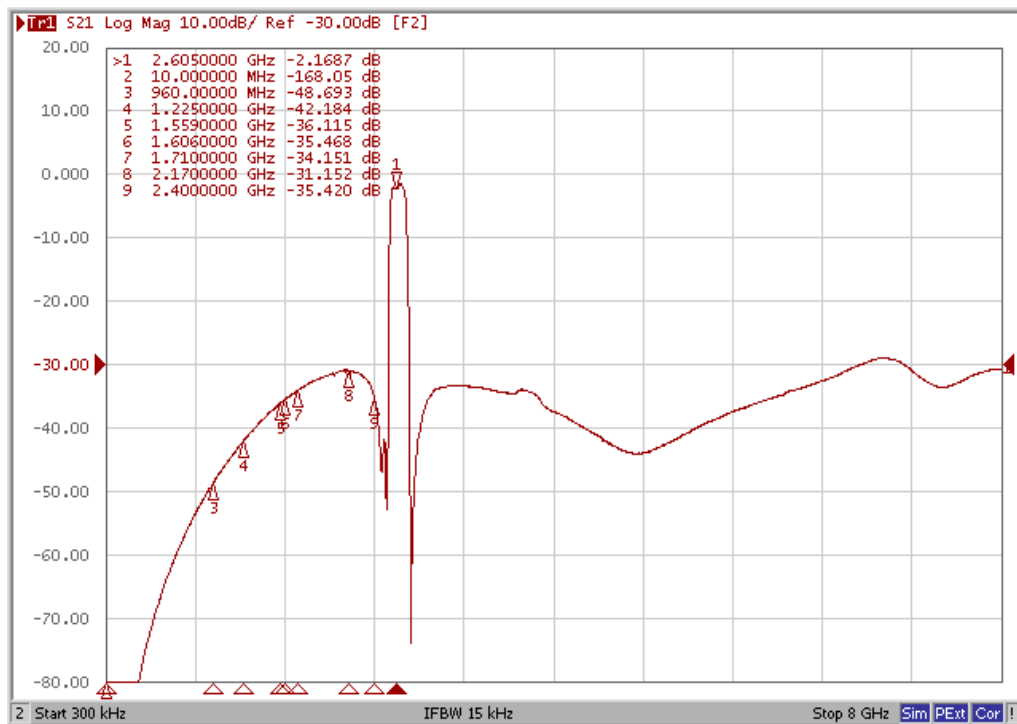
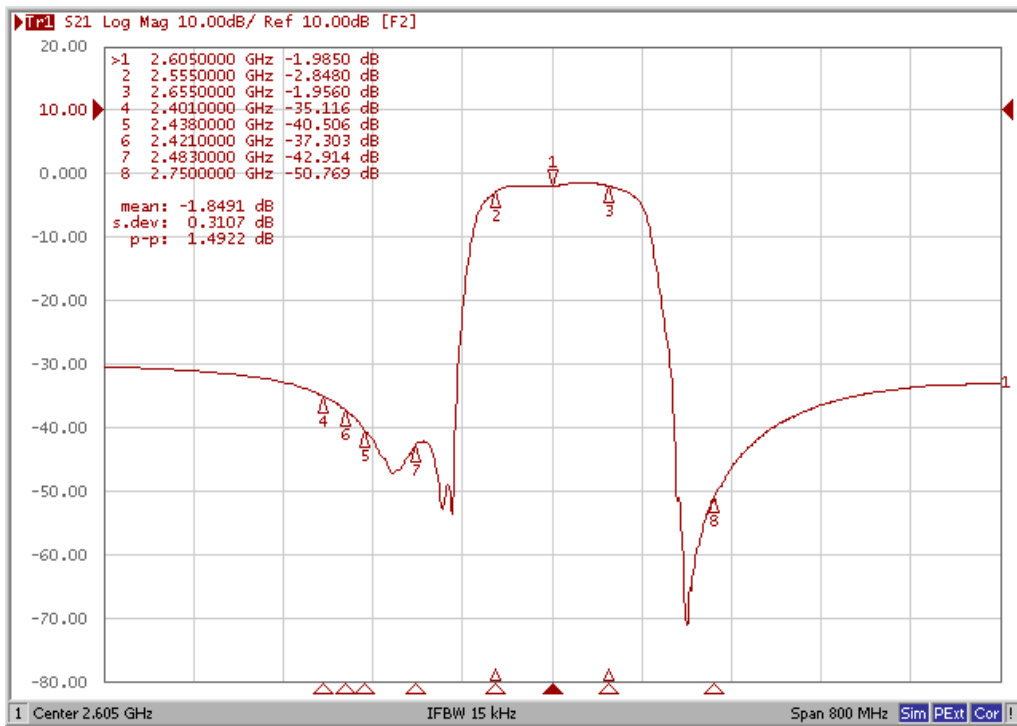


Source & Load Impedance: 50 Ω

PCB Footprint

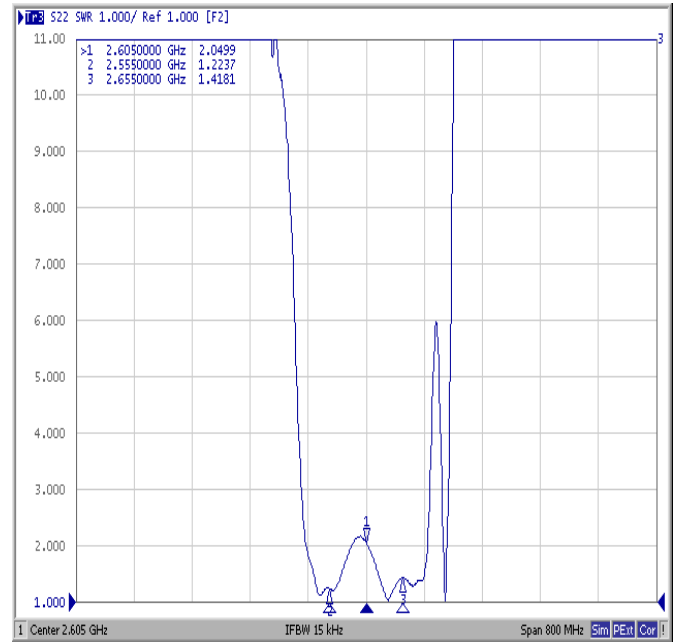
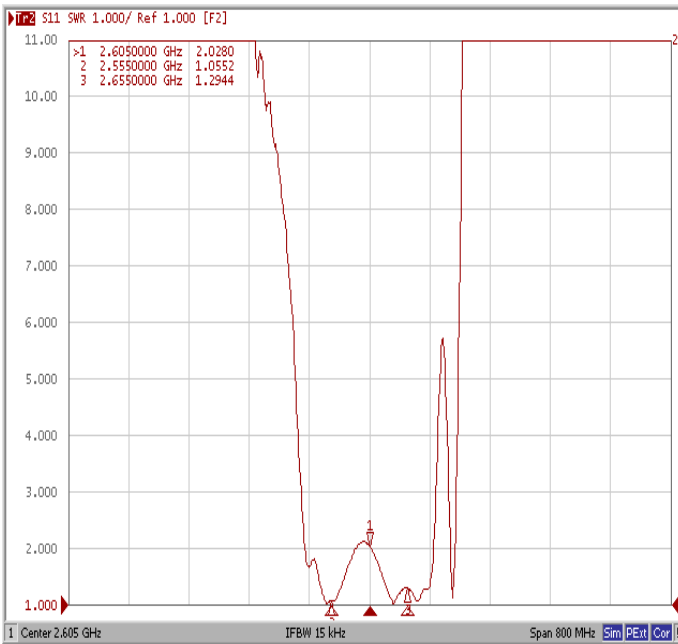


Frequency Characteristics

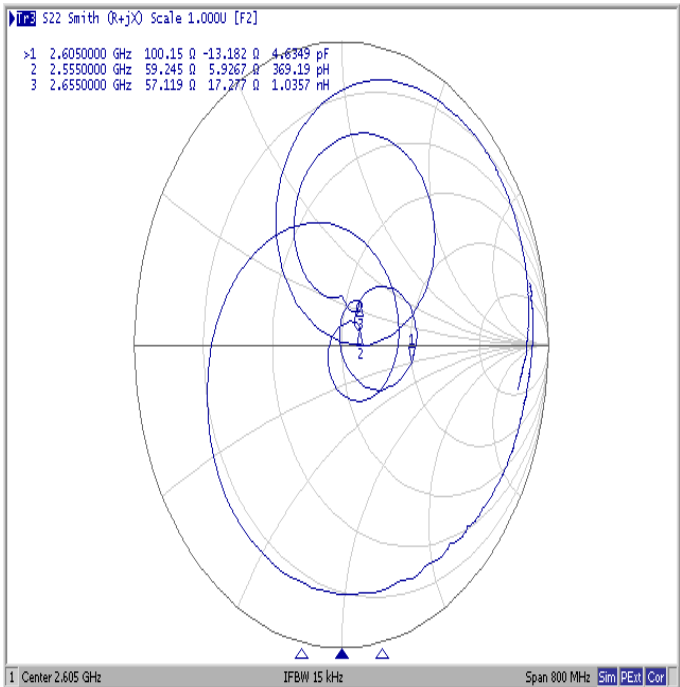
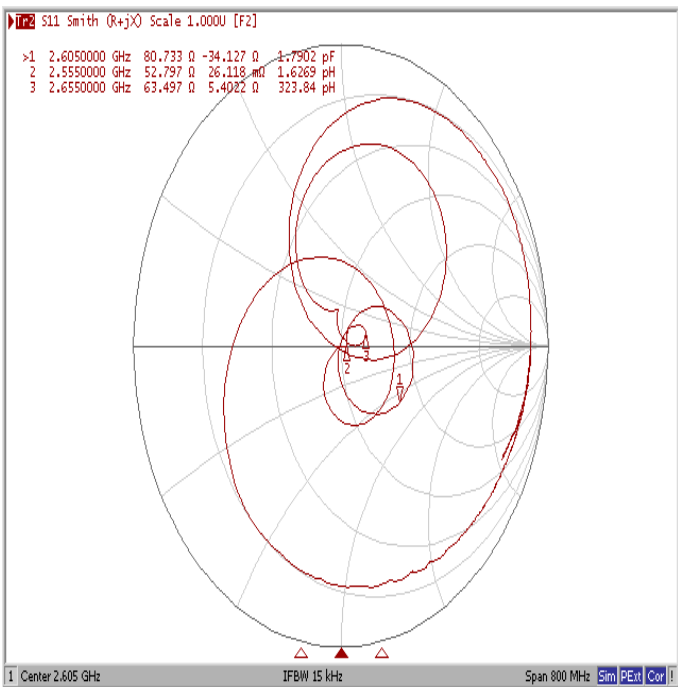


Reflection Functions

VSWR



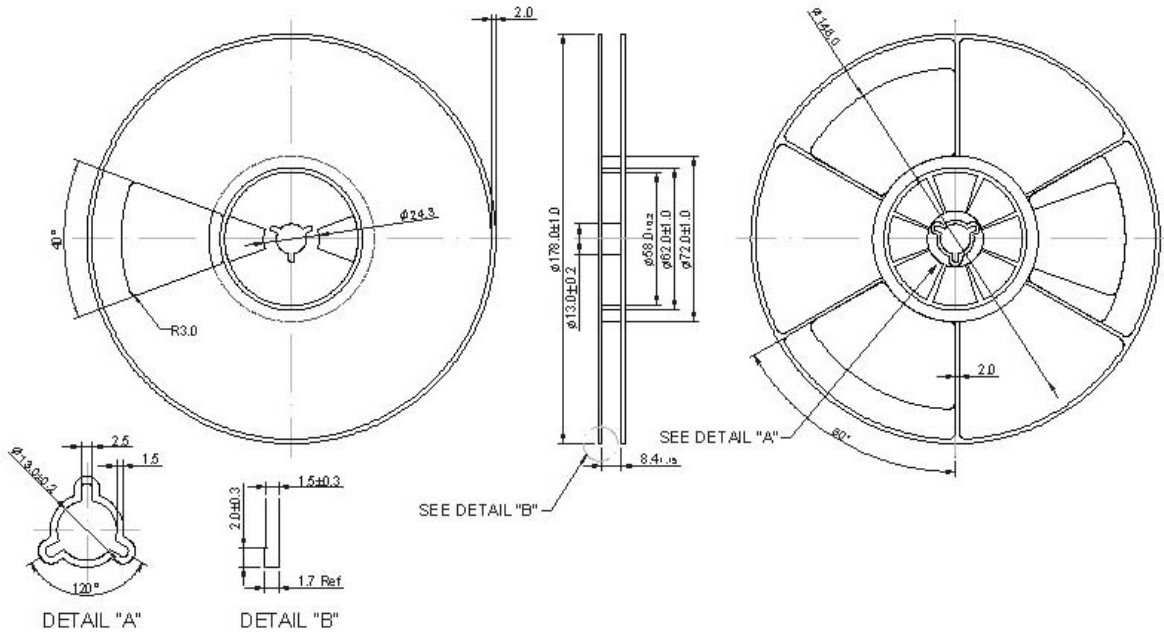
Smith Chart



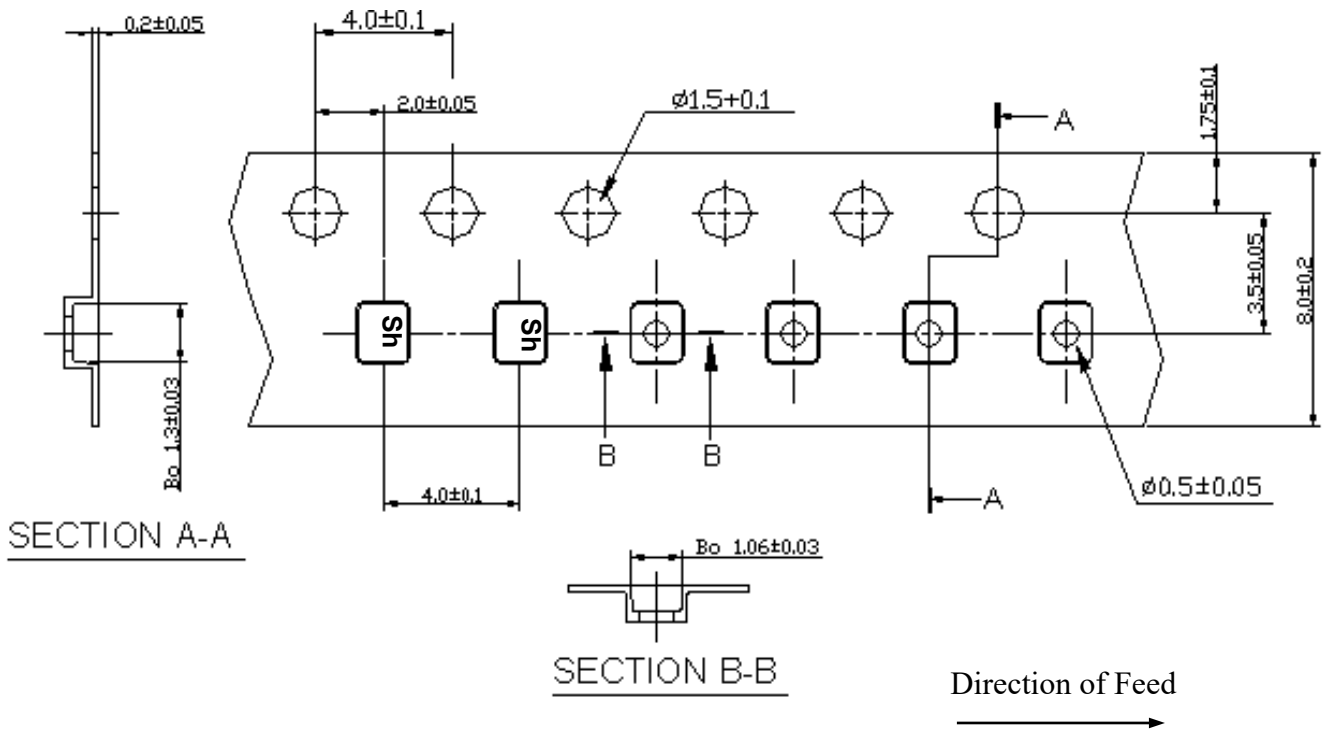
G. PACKING:

1. REEL DIMENSION

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



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

