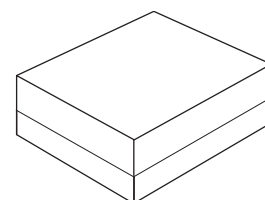


SF2728J

**1202/1582.5 MHz
SAW Dual Filter**



SM1511-6

MAXIMUM RATING:

- Input Power Level: 10 dBm
- DC Voltage : 3 V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +105°C
- ESD Machine Mode : 50V
- ESD Human Body Mode : 100V
- Sensitive Level (MSL): Level 3

ELECTRICAL CHARACTERISTICS:

Temperature range for specification : $T_{spec} = -40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

Item	Unit	Min	Typ	Max
GPS L2/L5 band				
Center Frequency	MHz	-	1202	-
Insertion Loss (1166~1238 MHz)	dB	-	2.5	3.0
Ripple (1166~1238 MHz)	dB	-	0.9	1.5
VSWR (1166~1238 MHz)			1.7	2.3
GPS L1 band				
Center Frequency	MHz	-	1582.5	-
Insertion Loss (1559~1606 MHz)	dB	-	2.9	3.5
Ripple (1559~1606 MHz)	dB	-	0.7	1.5
VSWR (1559~1606 MHz)			1.7	2.3
Attenuation (Reference level from 0 dB)				
100 – 1106 MHz	dB	30	36	-
1106 – 1136 MHz	dB	20	31	-
1268 – 1510 MHz	dB	25	28	-

1710 – 2000 MHz	dB	28	33	-
2000 – 3000 MHz	dB	25	30	-
Temperature Coefficient of Frequency	ppm/°C		-36	

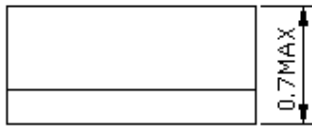
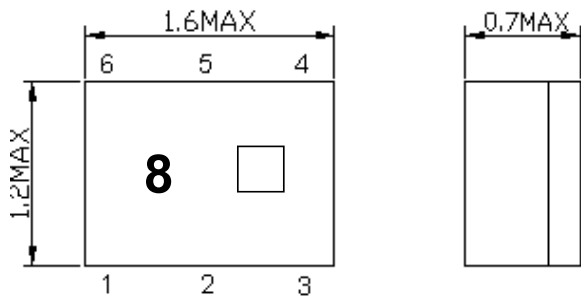


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

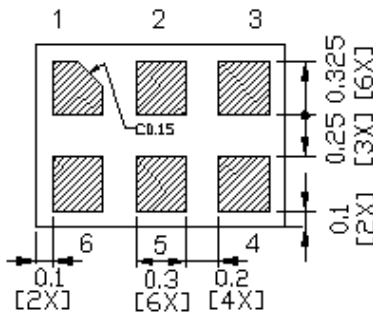
NOTES:

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.

OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
 Coplanarity : 0.1 mm max.
 1 to 6 : Pin No.
 Unit : mm

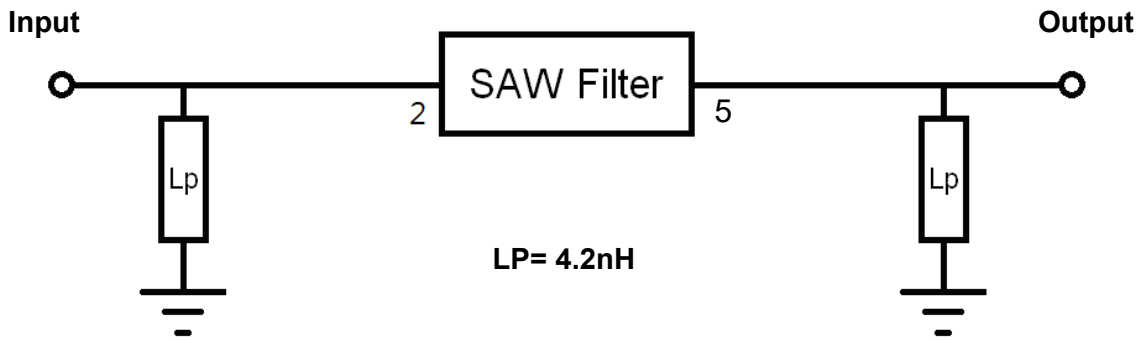


Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

□ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2021	A	B	C	D	E	F	G	H	J	K	L	M
2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023	a	b	c	d	e	f	g	h	j	k	l	m
2024	n	p	q	r	s	t	u	v	w	x	y	z
2025	A	B	C	D	E	F	G	H	J	K	L	M
2026	N	P	Q	R	S	T	U	V	W	X	Y	Z
2027	a	b	c	d	e	f	g	h	i	k	l	m
2028	n	p	q	r	s	t	u	v	w	x	y	z

MEASUREMENT CIRCUIT:

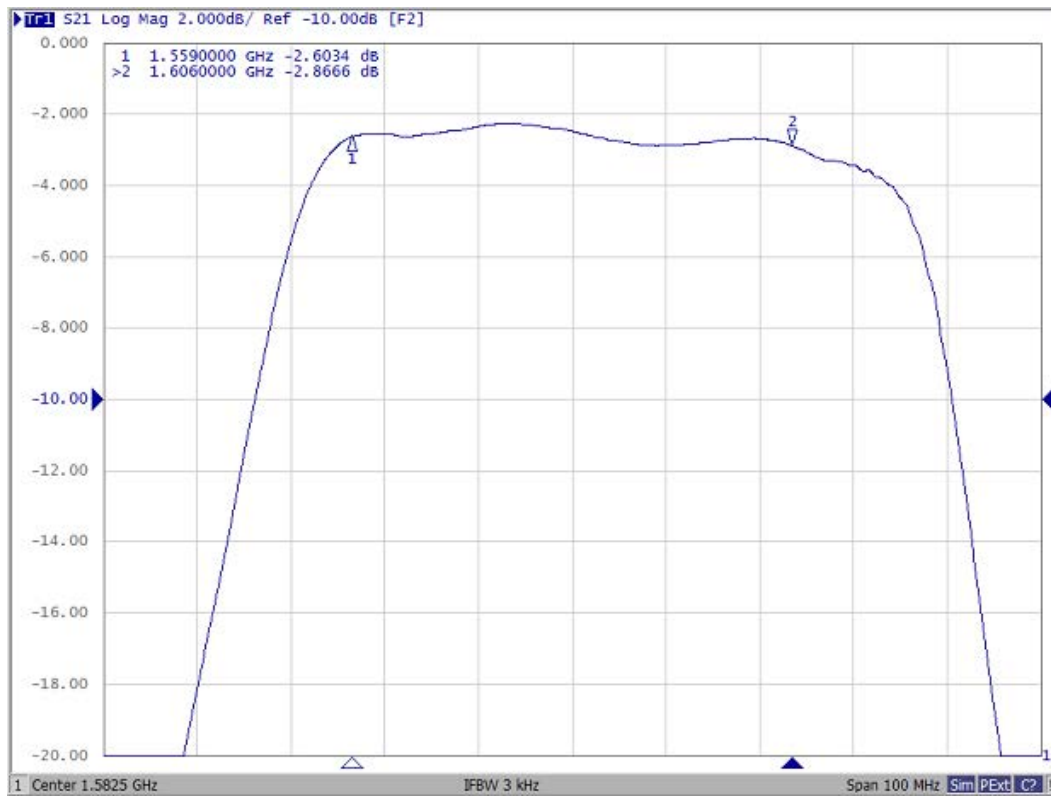


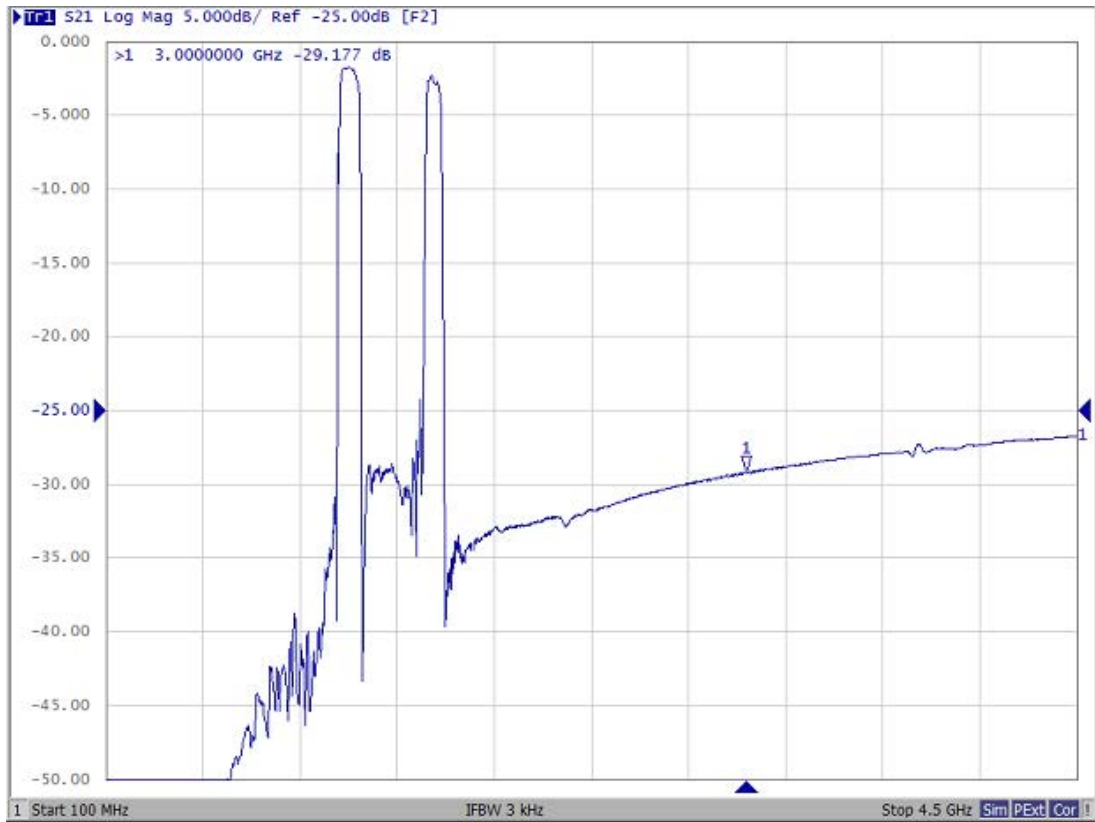
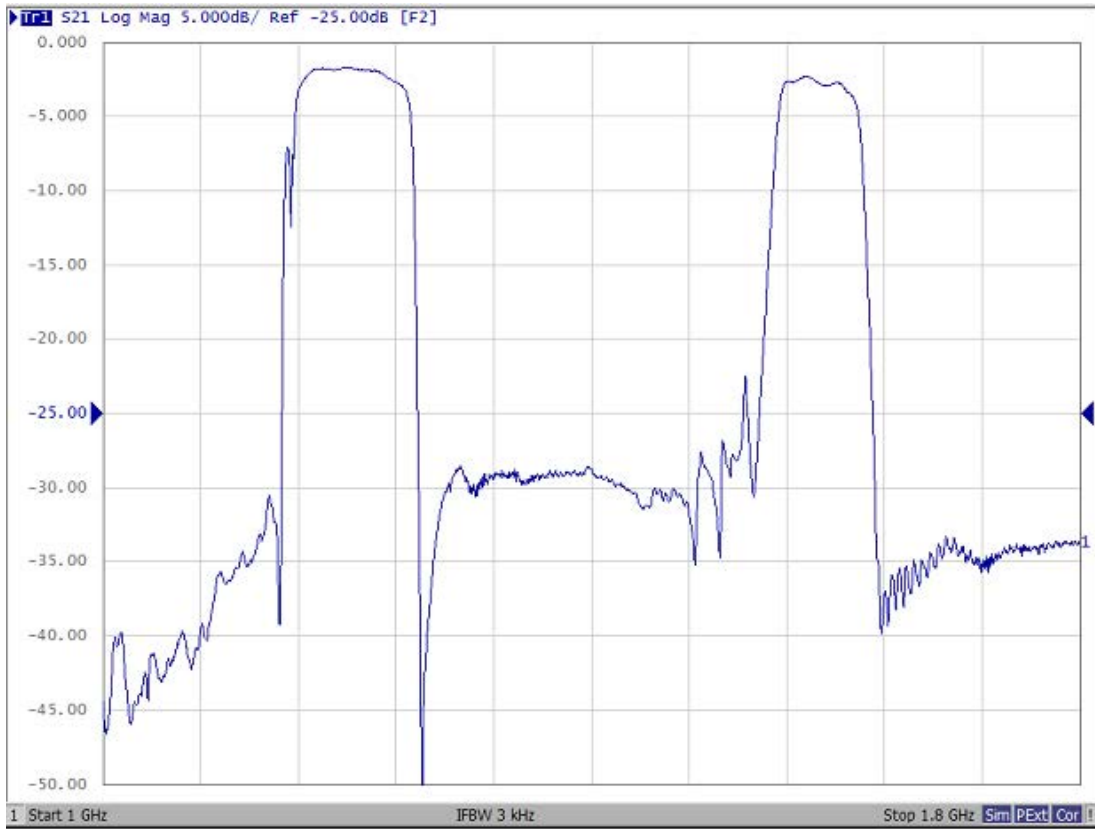
Frequency Characteristics:

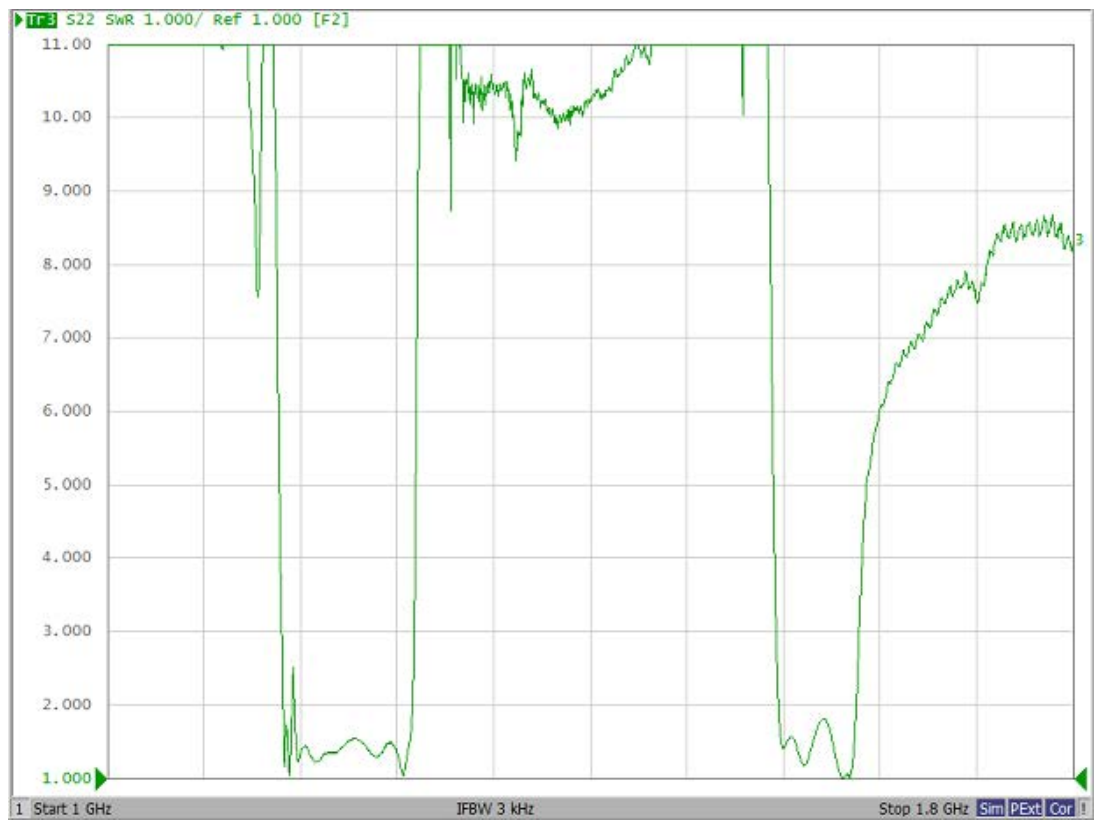
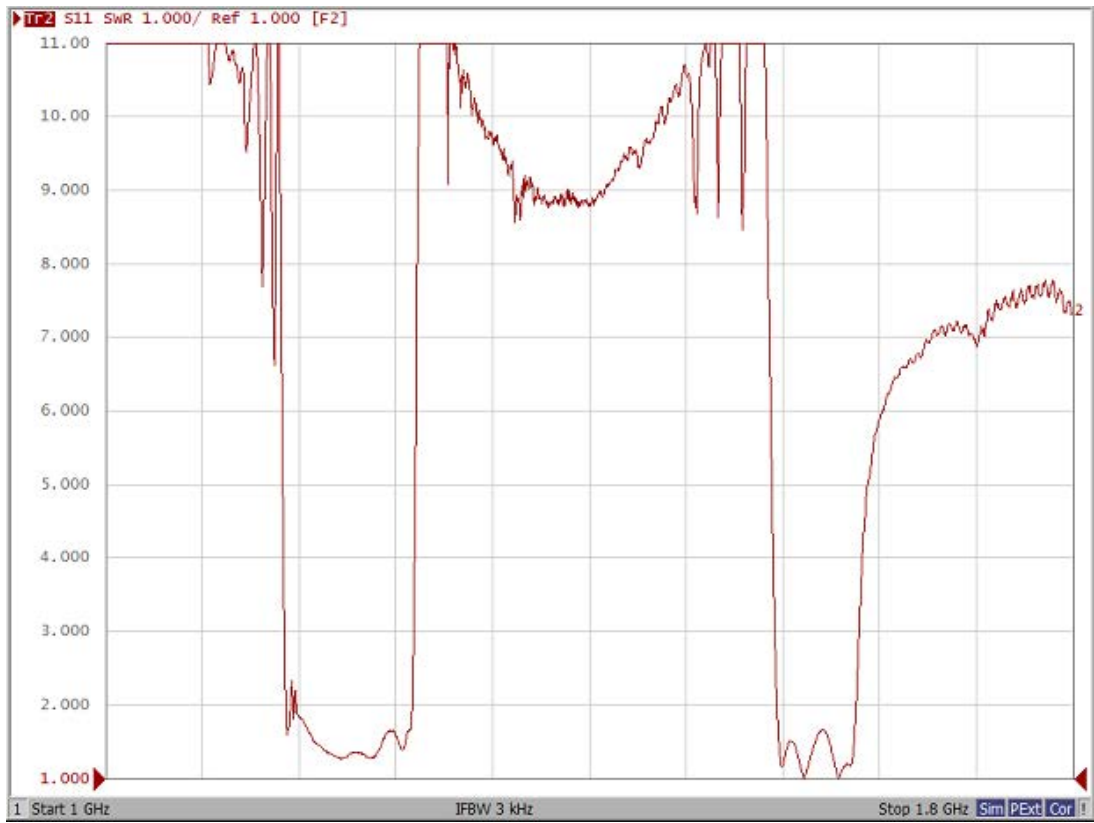
L2 + L5 Pass Band



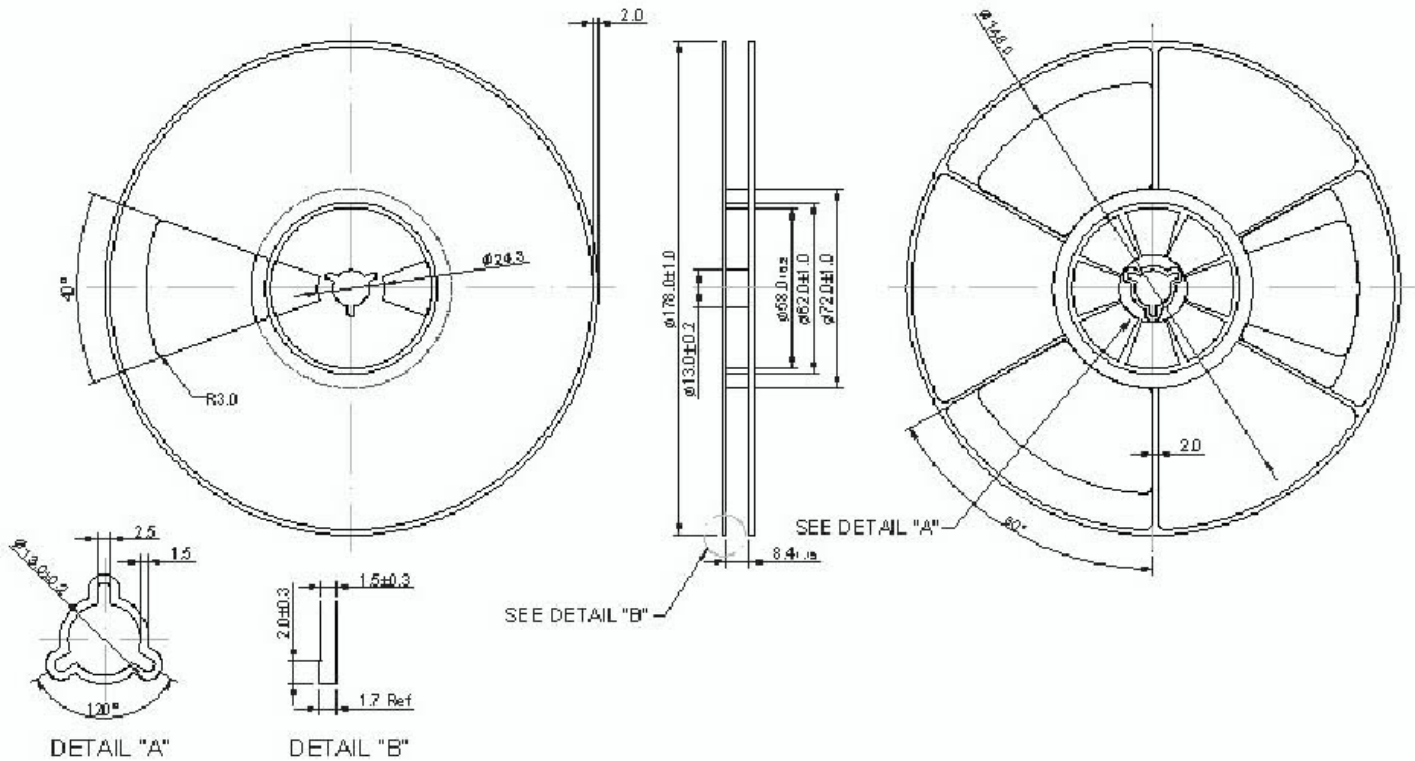
L1 Pass Band



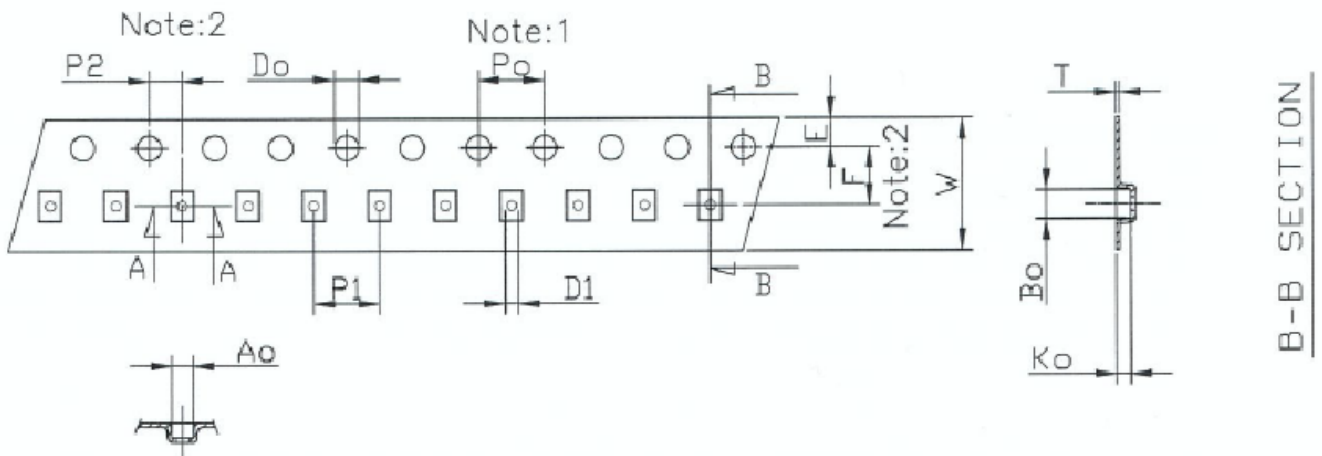




Reel Dimension:



Tape Dimension:



A-A SECTION

B-B SECTION

$$A_o = \underline{1.35 \pm 0.05} \text{ mm}$$

$$B_o = \underline{1.75 \pm 0.05} \text{ mm}$$

$$K_o = \underline{0.72 \pm 0.05} \text{ mm}$$

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.

