

SF2552LA

**737.5 MHz
SAW Filter**



SM1109

MAXIMUM RATING:

- Operating temperature range: -40 °C to +85 °C
- Storage temperature range: -40 °C to +85 °C
- Input power : 15dBm
- Maximum DC Voltage: +/-3 V
- Moisture Sensitivity Level: Level 1 (MSL 1)
- ESD 100V(MM) 200V(HBM)
- AEC-Q200 Qualified

ELECTRICAL CHARACTERISTICS

Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 50 \Omega$

Parameters Description		Unit	Min	Typ	Max	Remarks	
Insertion Loss	729 ~ 746MHz	dB(*1)	-	1.6	2.4	Band12 Rx	
	734 ~ 746MHz	dB(*1)		1.6	2.1	Band17 Rx	
Amplitude ripple	729 ~ 746MHz	dB	-	0.5	1.3		
	734 ~ 746MHz	dB		0.5	1.0		
VSWR	Input	729 ~ 746MHz	-	-	1.8	2.0	
	Output	729 ~ 746MHz	-	-	1.8	2.0	
Attenuation:							
1 ~ 699 MHz		dB	40	55	-		
699 ~ 716 MHz		dB	50	53	-		
716 ~ 722 MHz		dB	20	38	-		
1710 ~ 2238 MHz		dB	40	45	-		
2400 ~ 2500 MHz		dB	36	43	-		
2500 ~ 6000 MHz		dB	30	40	-		
Input impedance		Ω	50			single-ended	
Output impedance		Ω	50			single-ended	

(*1) Specification of insertion loss excludes loss that comes from the test board.

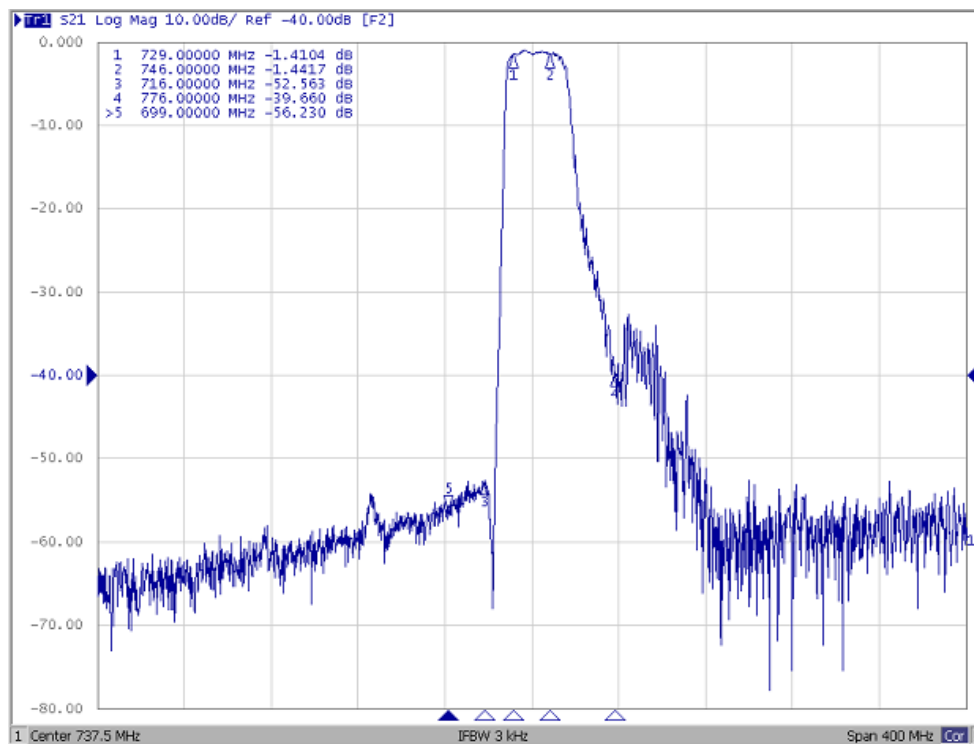
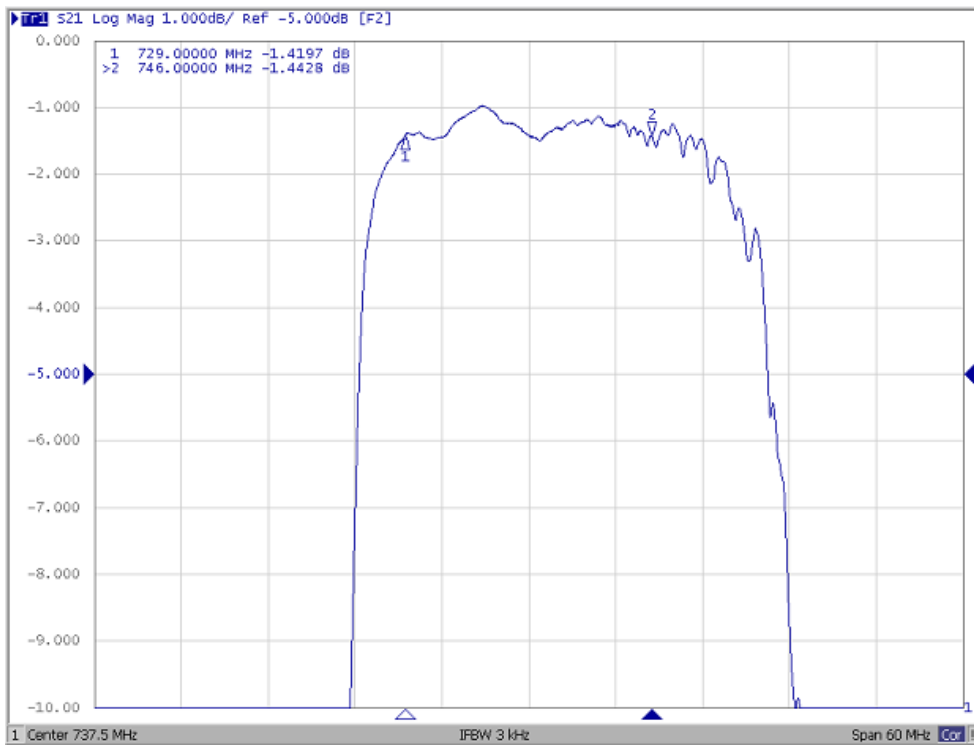


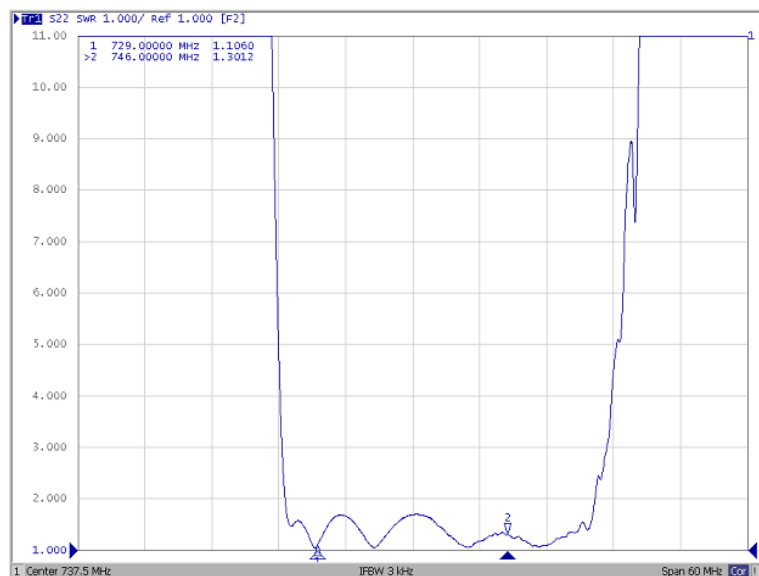
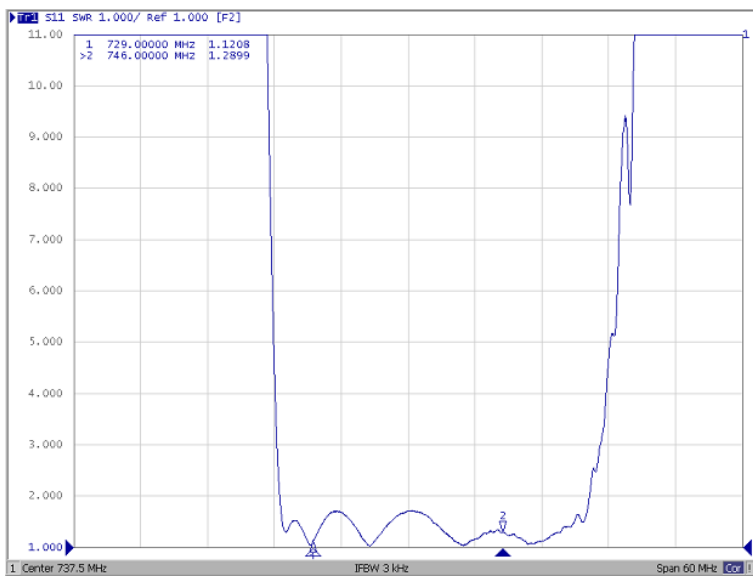
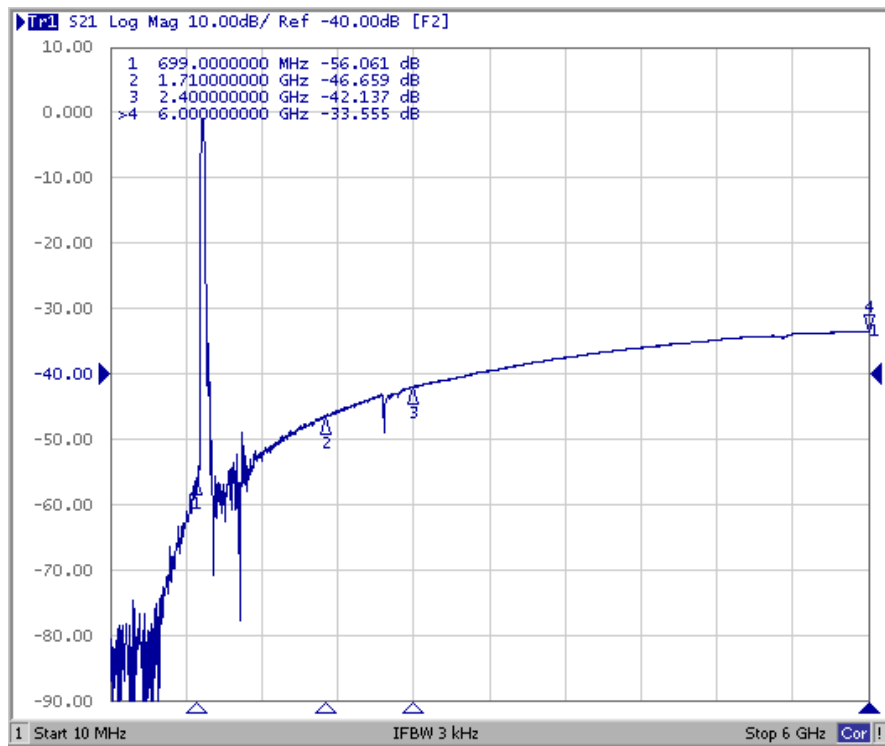
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

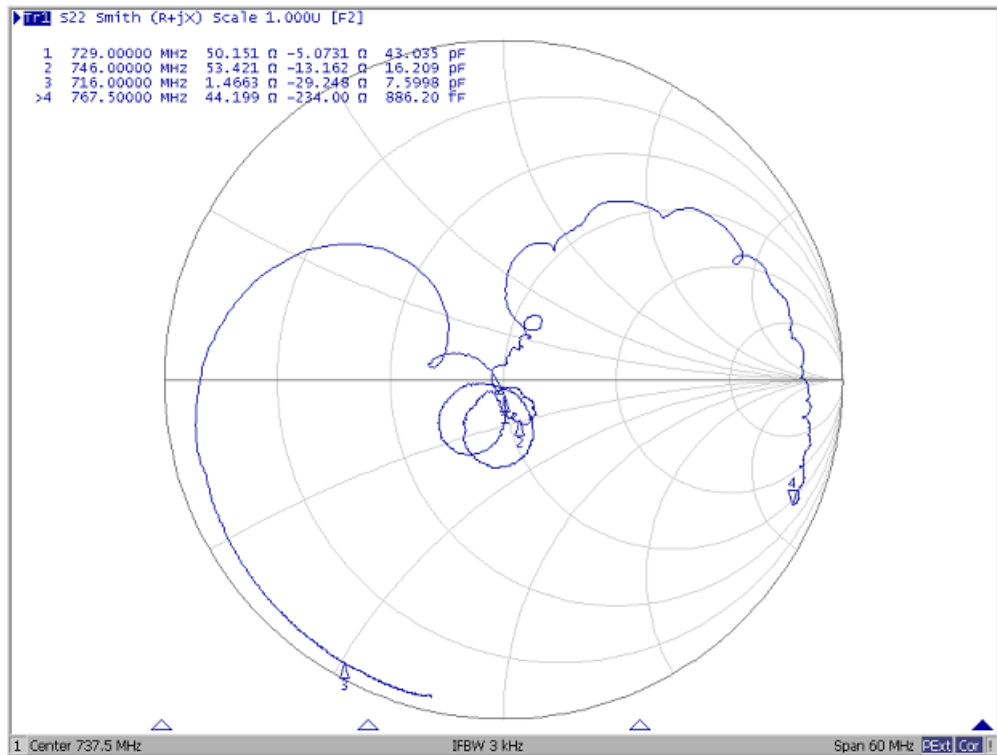
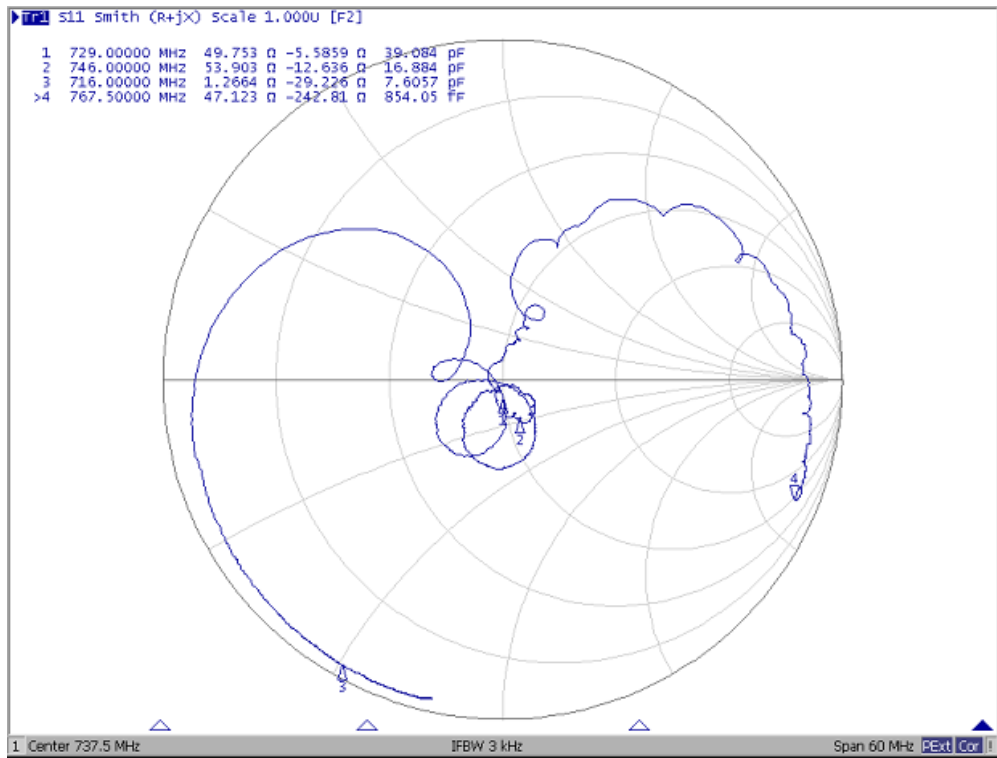
NOTES:

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.

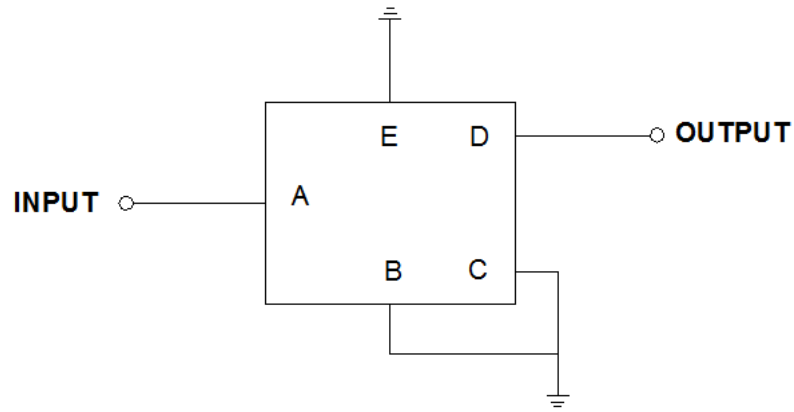
FREQUENCY CHARACTERISTICS:





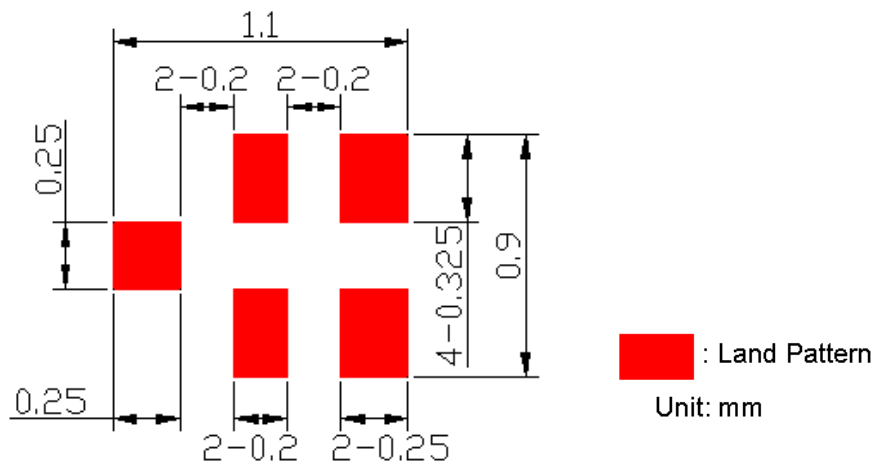


MEASUREMENT CIRCUIT

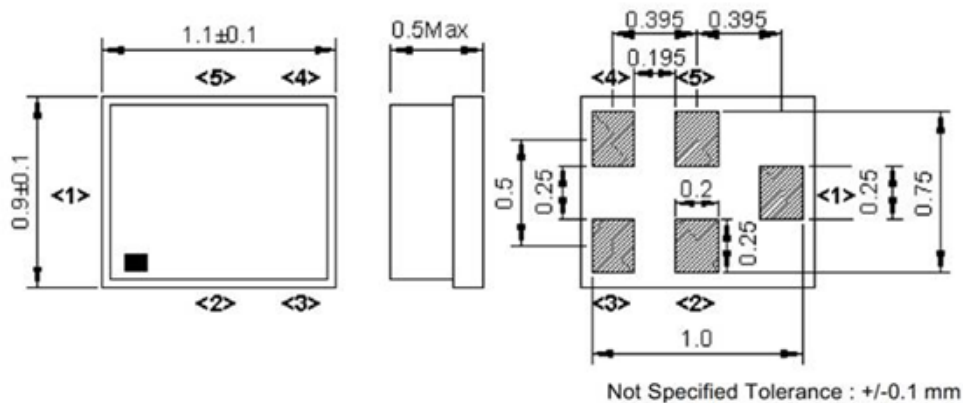


Source & Load Impedance: 50 Ω

PCB Footprint

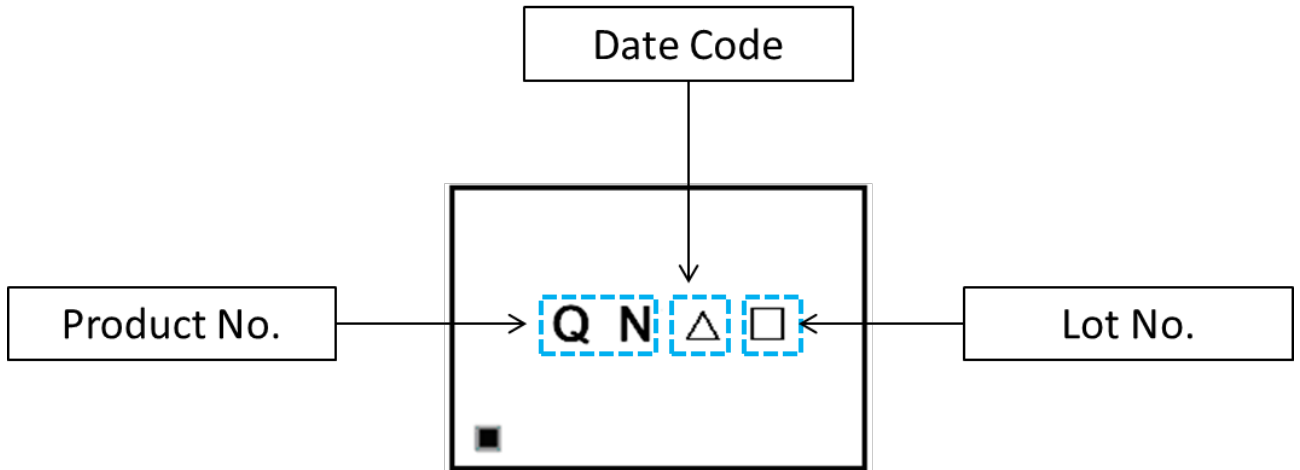


OUTLINE DRAWING:

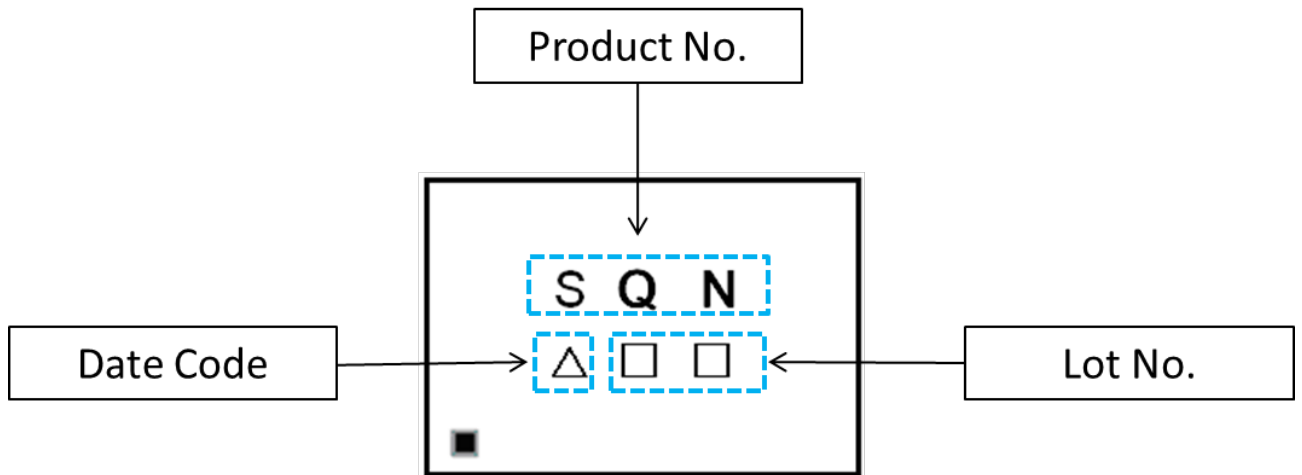


Pin Description	
B, C, E	Ground
A	Input
D	Output

Top View (Sample Production):



Top View (Mass Production):



△ : Date Code

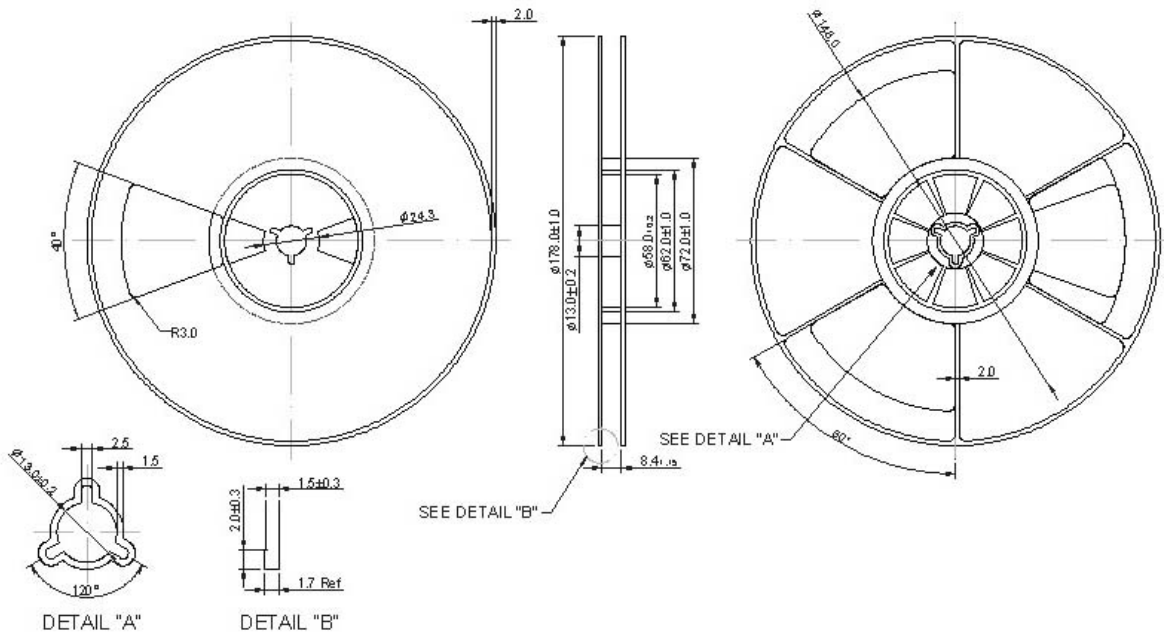
□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

Product date Code (EIAJ)

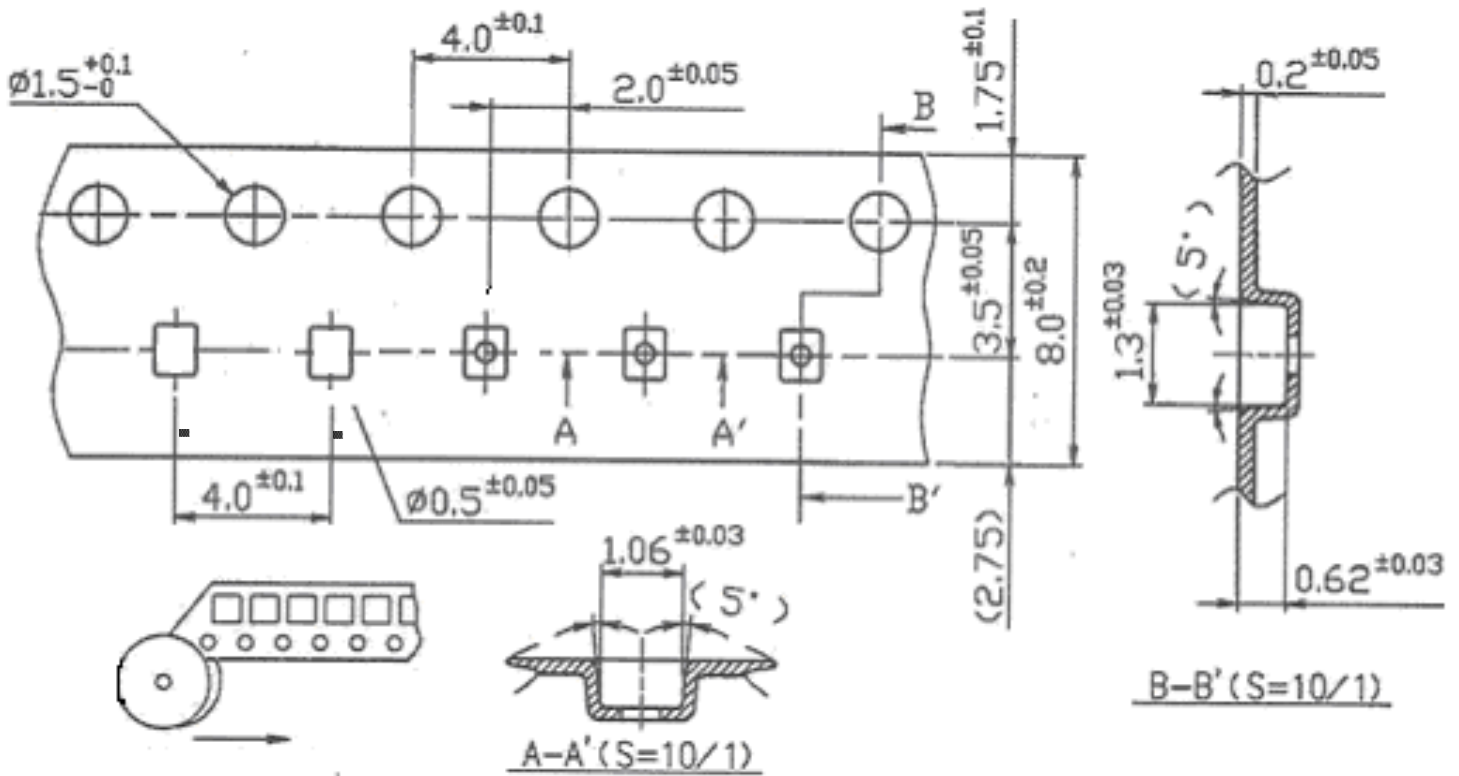
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019	a	b	c	d	e	f	g	h	j	k	l	m
2020	n	p	q	r	s	t	u	v	w	x	y	z

**PACKING
REEL DIMENSION**

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



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

