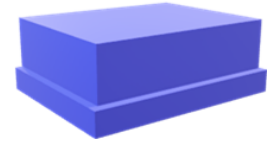


SF2644L

**1223 MHz
SAW Filter**



SM1109-5

MAXIMUM RATING:

- Maximum Input Power: 10 dBm
- DC voltage: 0 V
- Operating Temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- ESD: 100V(MM) 200V(HBM)
- Moisture Sensitive Level: Level 3 (MSL3)

ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency	MHz	-	1223	-
Insertion Loss (1197 ~ 1249 MHz)				
At -40°C to +85°C		-	1.8	2.6
At -40°C to +105°C		-	1.8	2.8
Group Delay Ripple				
1197 ~ 1217 MHz	ns	-	5.0	7
1217 ~ 1237 MHz	ns	-	4.5	7
1242 ~ 1249 MHz	ns	-	3.0	7
1197 ~ 1249 MHz (Each 2 MHz Bandwidth)	ns	-	2	5
Attenuation (reference level from 0 dB)				
880 ~ 920 MHz	dB	35	38	-
1710 ~ 1850 MHz	dB	40	42	-
1850 ~ 1920 MHz	dB	40	42	-
1920 ~ 1980 MHz	dB	38	41	-
2400 ~ 2500 MHz	dB	30	34	-
Temperature Coefficient of Frequency	ppm/°C	-	-36	-



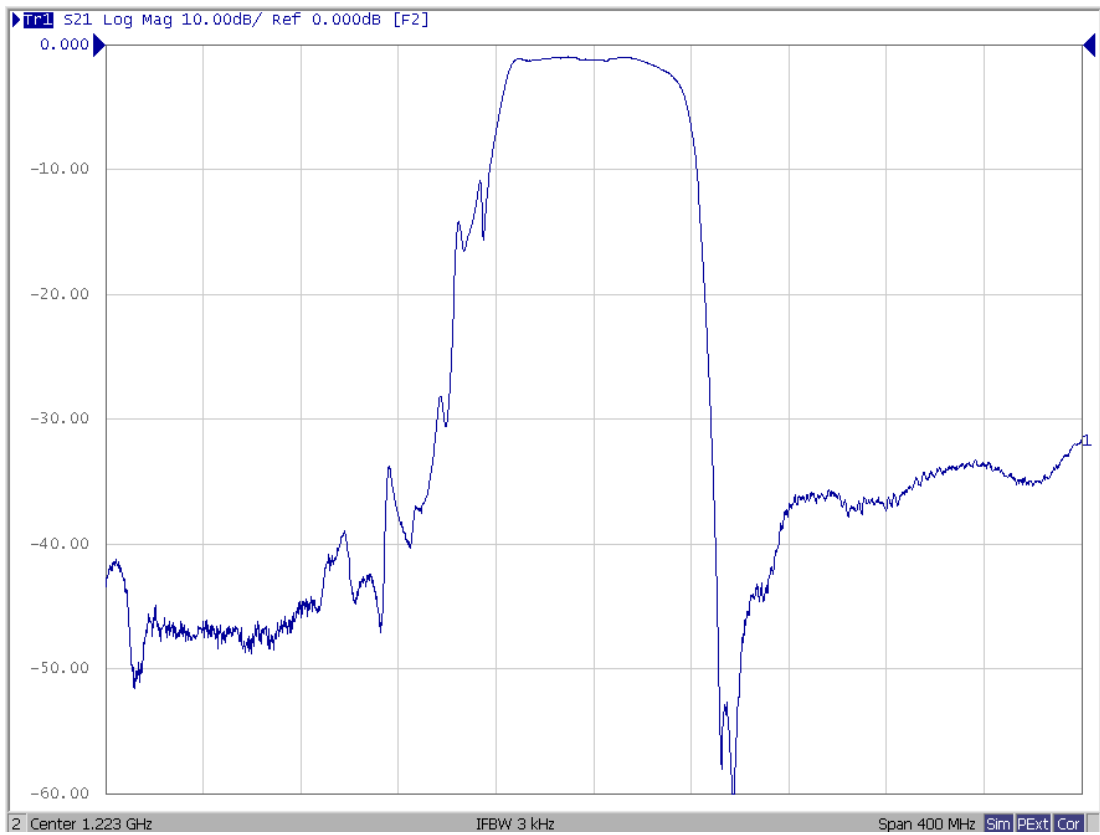
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

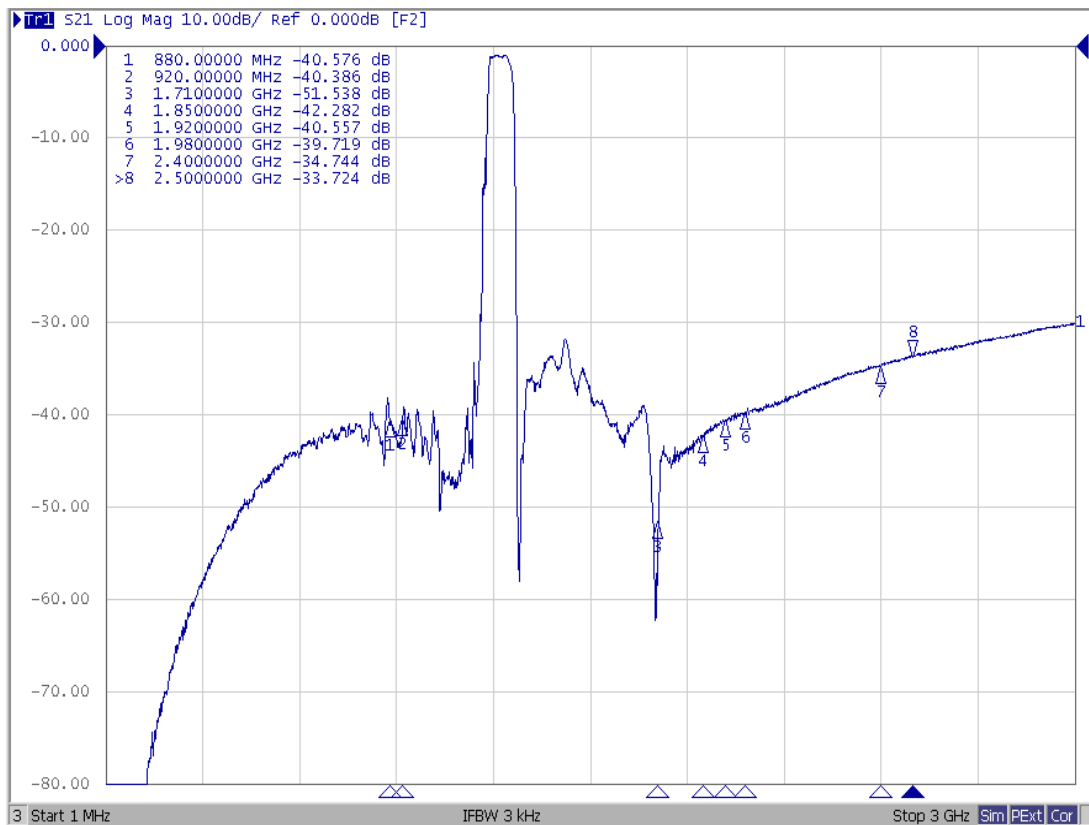
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics :

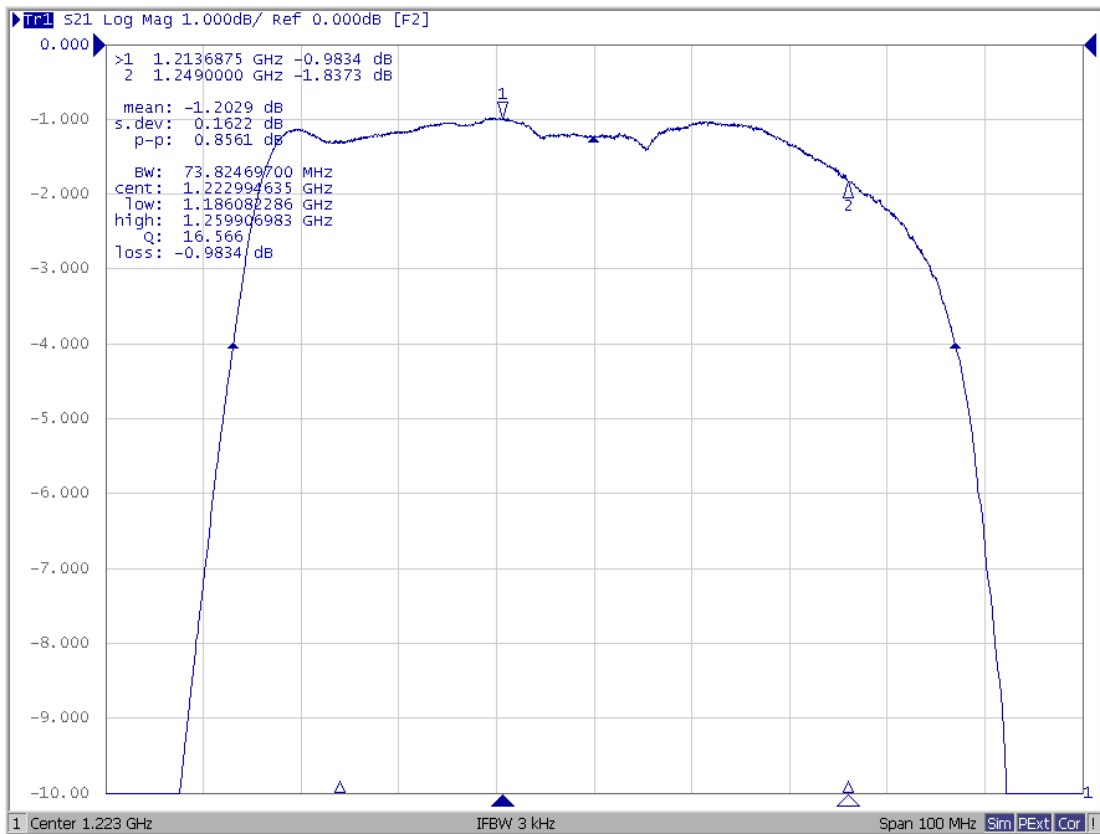
S21dB Span 400 MHz



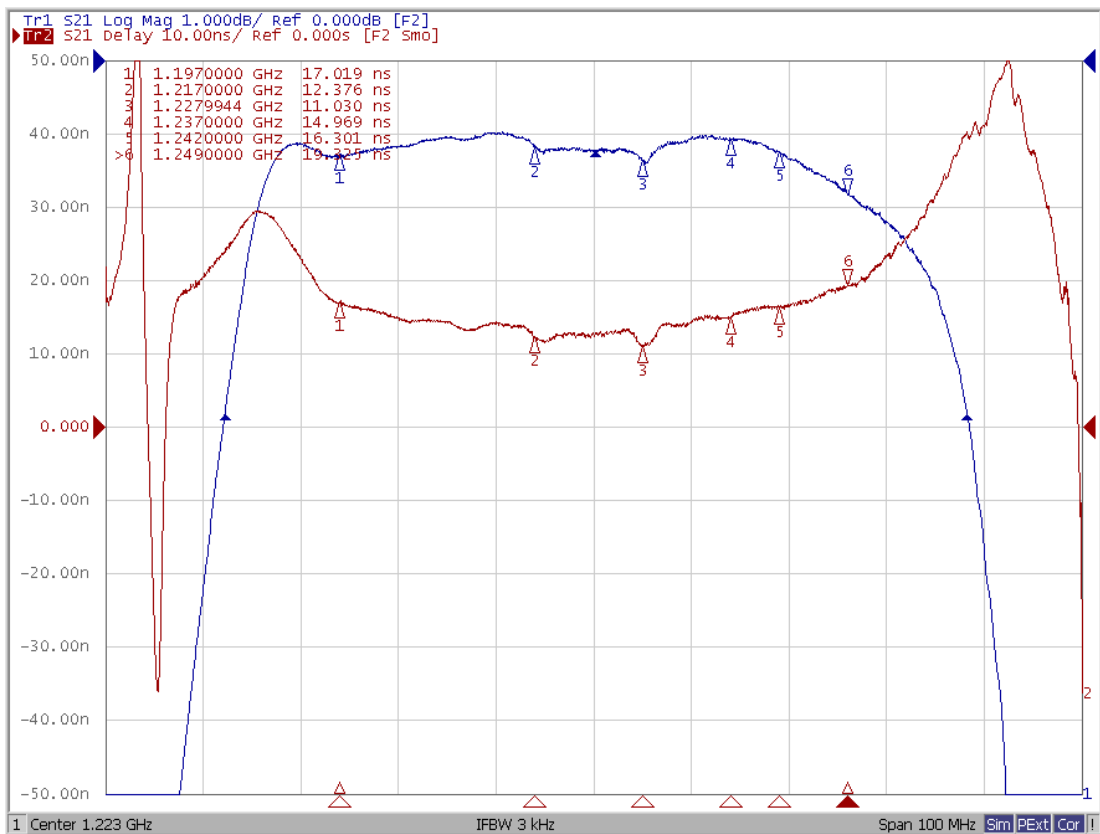
S21dB Span 2500 MHz



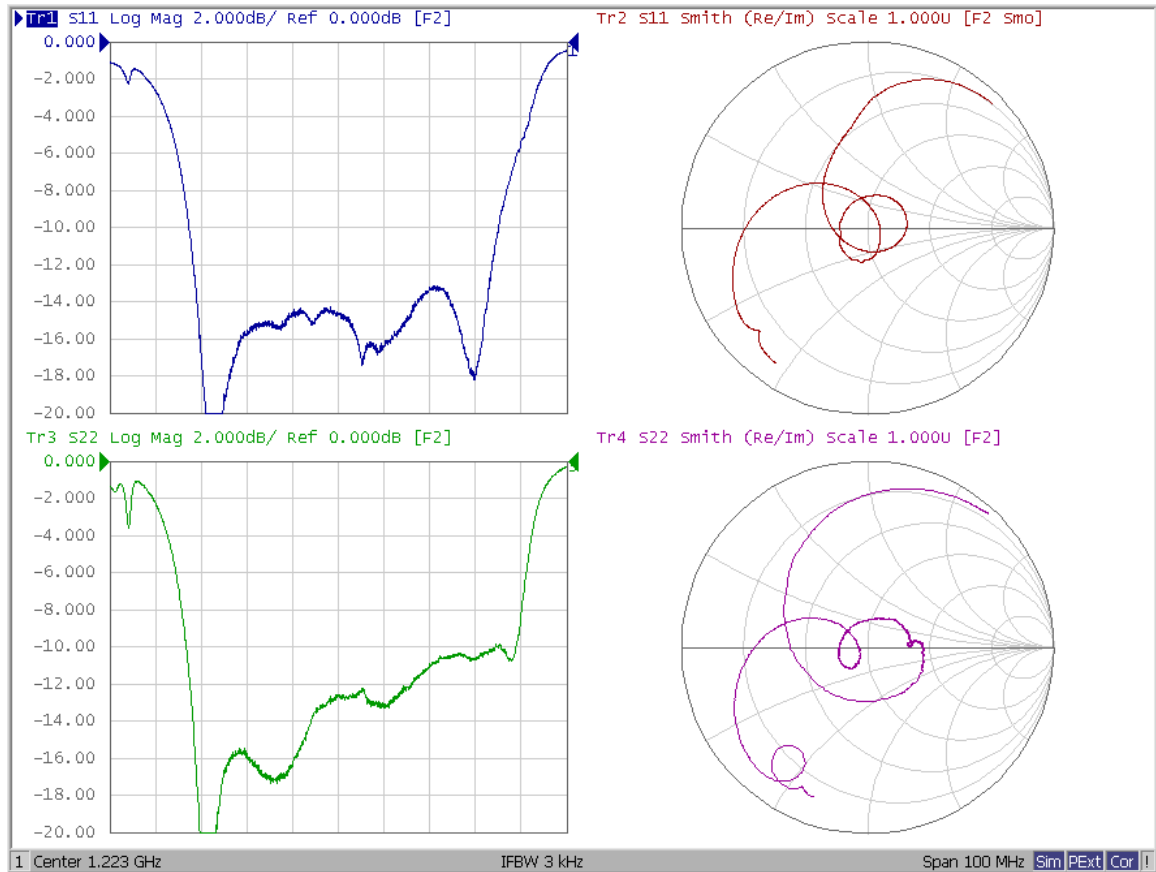
Ripple Span 100 MHz



Group Delay

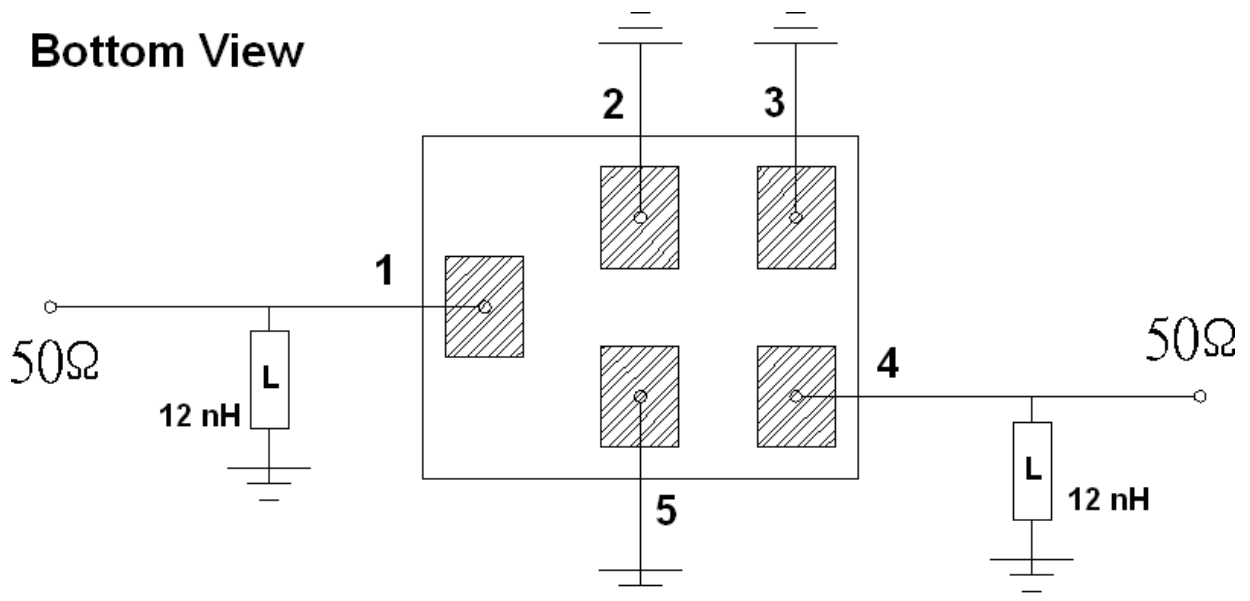


Reflective Function



MEASUREMENT CIRCUIT:

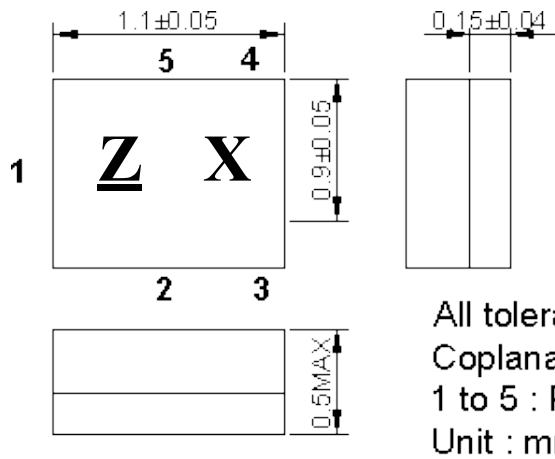
Bottom View



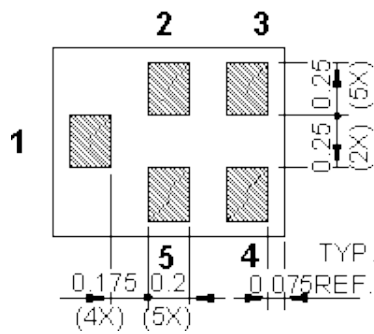
Source Impedance: 50Ω

Load Impedance: 50Ω

OUTLINE DRAWING:



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



Marking Descriptions	
<u>Z</u>	Series Number
X	Date Code(Year+Month)

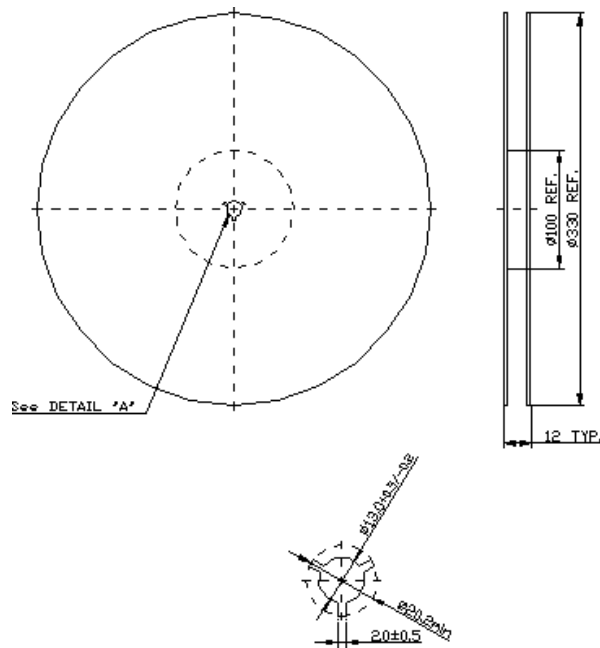
Pin Description	
2, 3, 5	Ground
1	Input
4	Output

Date Code (year+month)

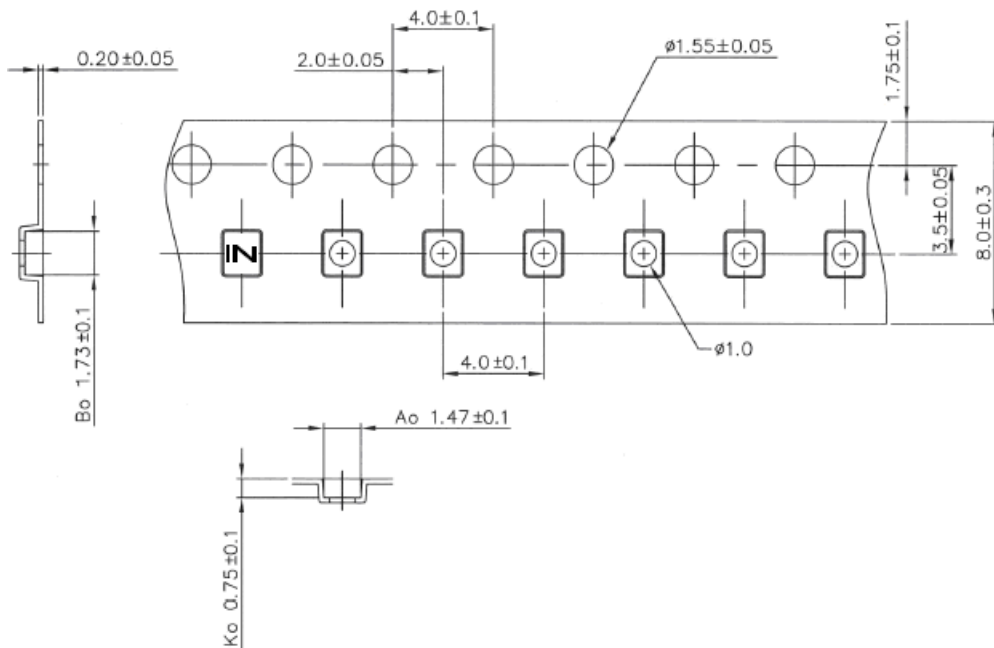
Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</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>

PACKING:

REEL COUNT: 7" = 5000



2. 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.

