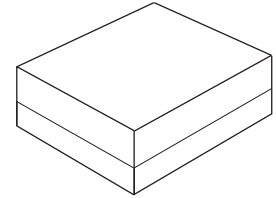


Complies with Directive 2002/95/EC (RoHS)  
Moisture Sensitivity Level: 3

**SF2520K**

**866.5 MHz  
SAW Filter**



SM1411-5

**Absolute Maximum Ratings**

Rating	Value	Units
Input Power Level	20	dBm
DC Voltage	0	VDC
Operable Temperature Range	+40 to +85	°C
Storage Temperature Range	-40 to +85	°C

**Electrical Characteristics**

Terminating source impedance (single):  $Z_s = 50 \Omega$

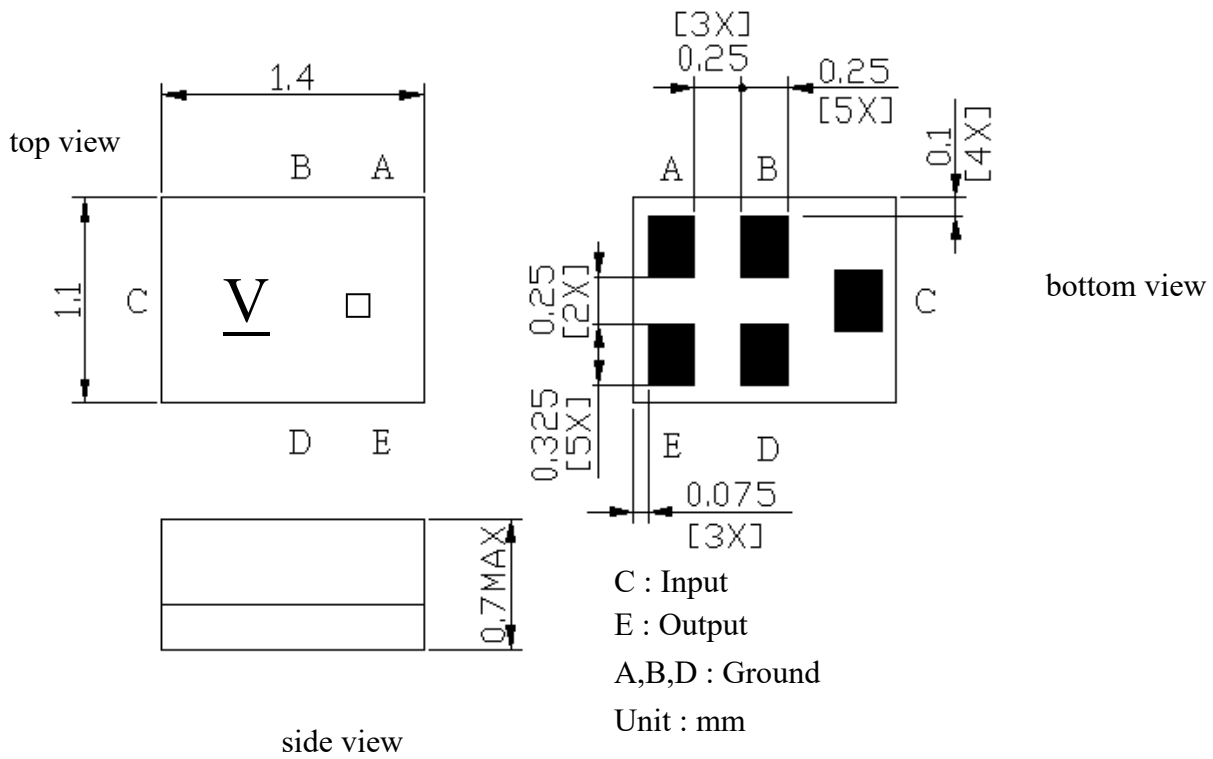
Terminating load impedance (single):  $Z_L = 50 \Omega$

Item	Unit	Min	Type.	Max
<b>Center Frequency</b>	MHz	-	866.5	-
<b>Insertion Loss (863~870 MHz)</b>	dB		2.5	3.0
<b>Amplitude ripple (863~870 MHz)</b>	dB		0.6	1.2
<b>VSWR (863~870 MHz)</b>			1.8	2.0
<b>Attenuation</b>				
<b>10 ~ 810 MHz</b>	<b>dB</b>	<b>35</b>	<b>40</b>	
810 ~ 830 MHz	dB	35	37	
830 ~ 840 MHz	dB	20	30	
840 ~ 850 MHz	dB	15	20	
890 ~ 900 MHz	dB	20	25	
900 ~ 1100 MHz	dB	25	27	
1500 MHz	dB		35	
1100 ~ 1800 MHz	dB	30	32	
1800 ~ 2000 MHz	dB	26	30	
<b>Package size</b>	mm	SMD 1411		

 **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.

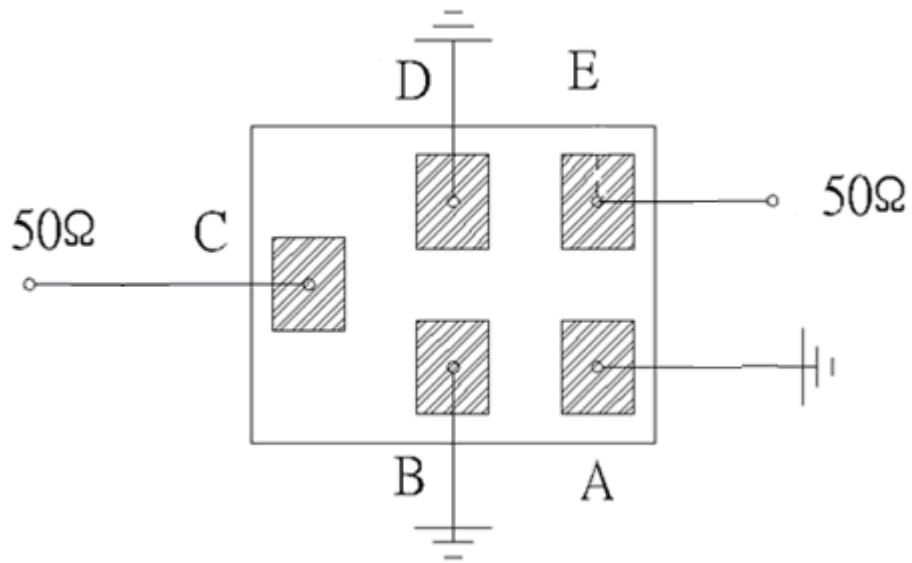
# Outline Drawing



□ : Year/Month Code (Follow the table)

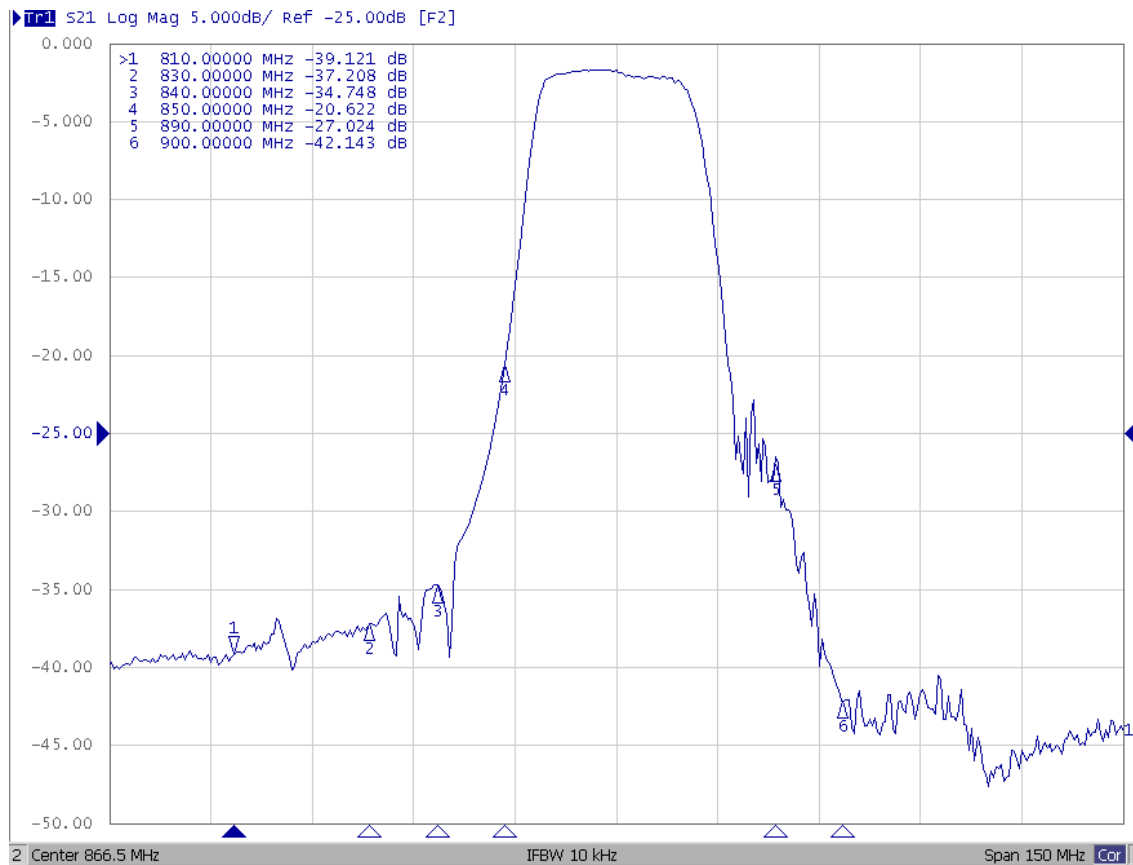
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
<b>2013</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>
<b>2014</b>	<b>N</b>	<b>P</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
<b>2015</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>	<b>g</b>	<b>h</b>	<b>j</b>	<b>k</b>	<b>l</b>	<b>m</b>
<b>2016</b>	<b>n</b>	<b>p</b>	<b>q</b>	<b>r</b>	<b>s</b>	<b>t</b>	<b>u</b>	<b>v</b>	<b>w</b>	<b>x</b>	<b>y</b>	<b>z</b>
<b>2017</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>J</b>	<b>K</b>	<b>L</b>	<b>M</b>
<b>2018</b>	<b>N</b>	<b>P</b>	<b>Q</b>	<b>R</b>	<b>S</b>	<b>T</b>	<b>U</b>	<b>V</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
<b>2019</b>	<b>a</b>	<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>	<b>g</b>	<b>h</b>	<b>j</b>	<b>k</b>	<b>l</b>	<b>m</b>
<b>2020</b>	<b>n</b>	<b>p</b>	<b>q</b>	<b>r</b>	<b>s</b>	<b>t</b>	<b>u</b>	<b>v</b>	<b>w</b>	<b>x</b>	<b>y</b>	<b>z</b>

## Measurement Circuit

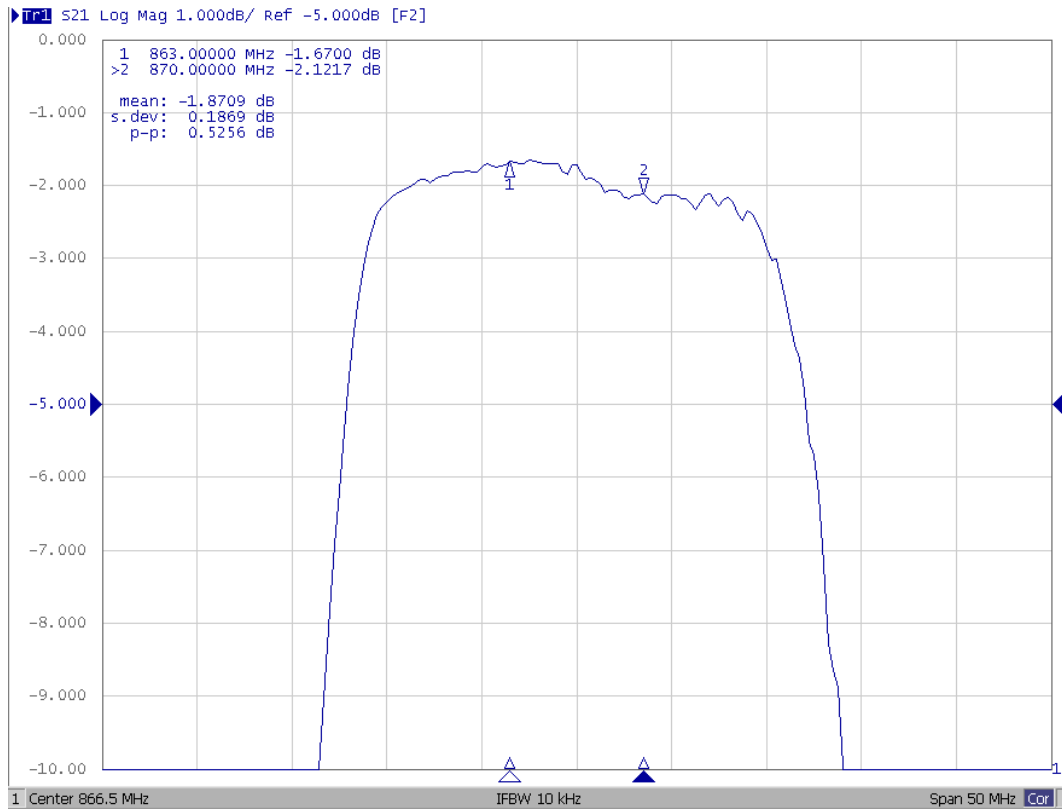


## Frequency Characteristics

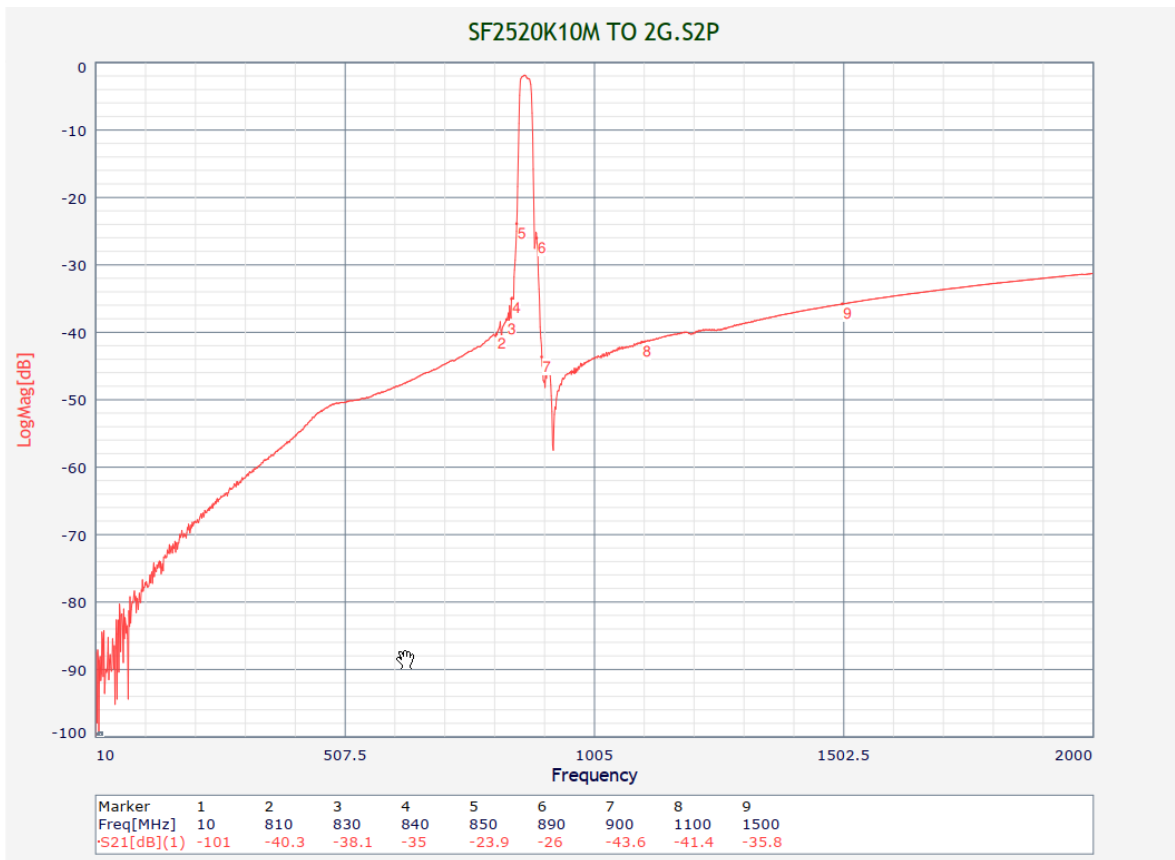
### S21 response: span 150MHz



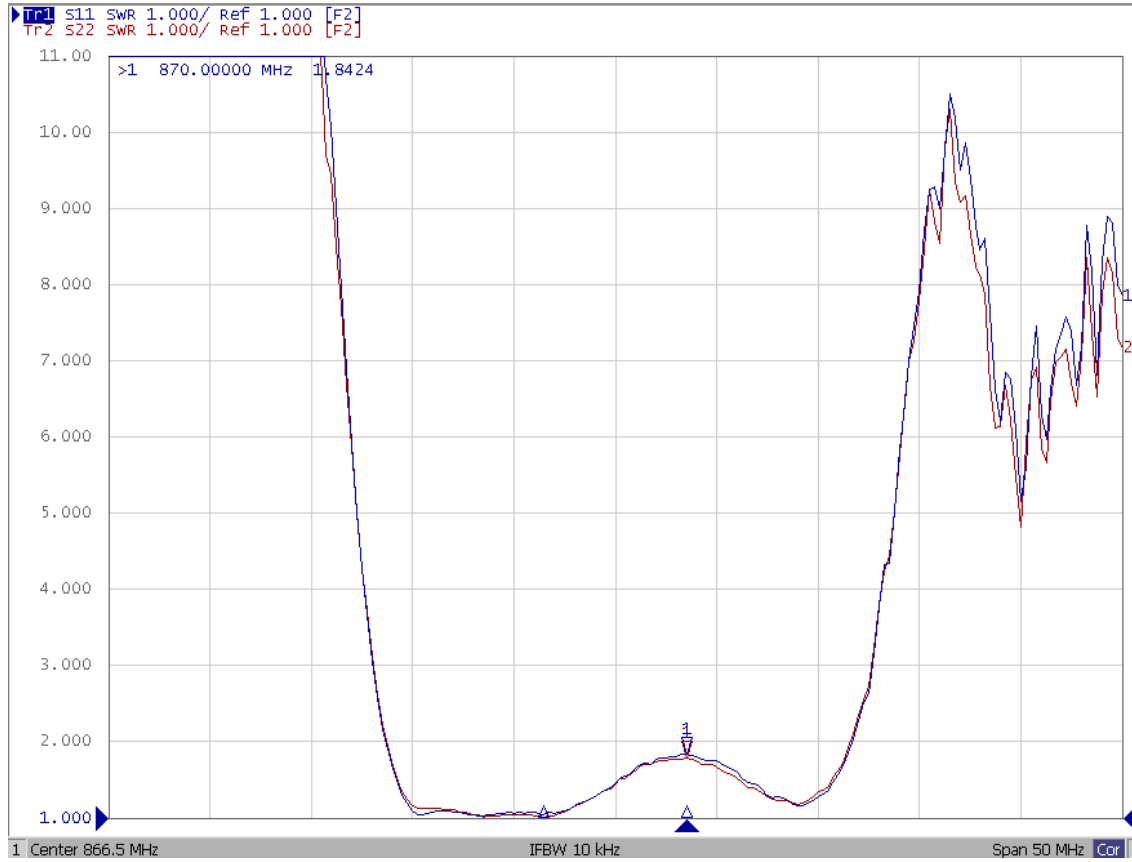
### S21 response: span 50MHz



### S21 response: span 2.5GHz



# S11/S22 VSWR

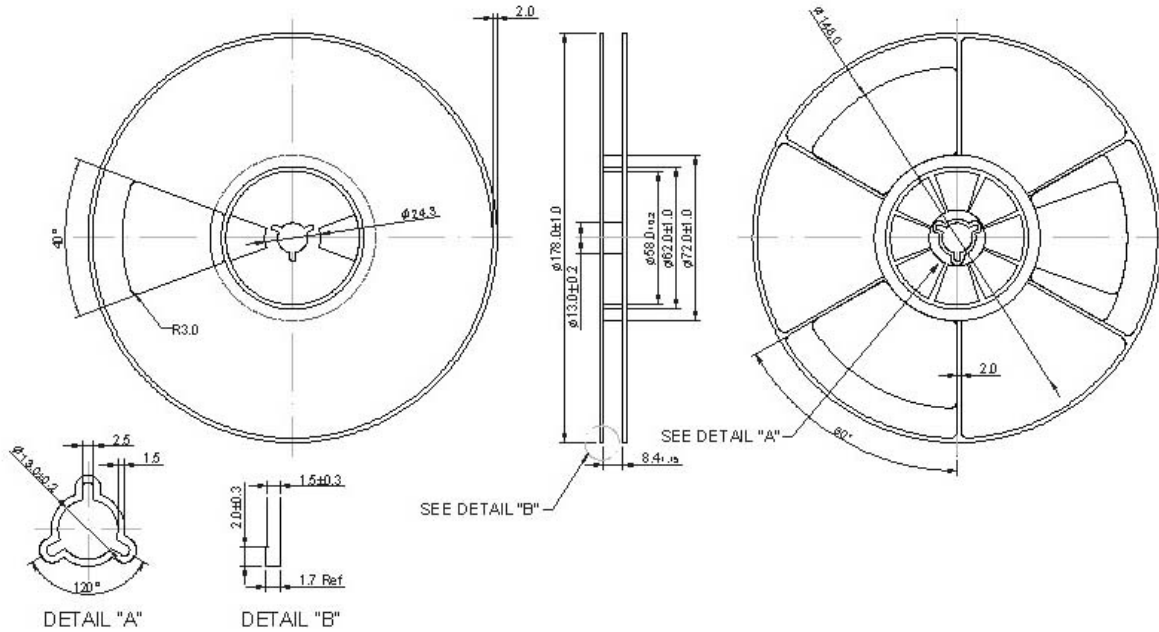


# Packing

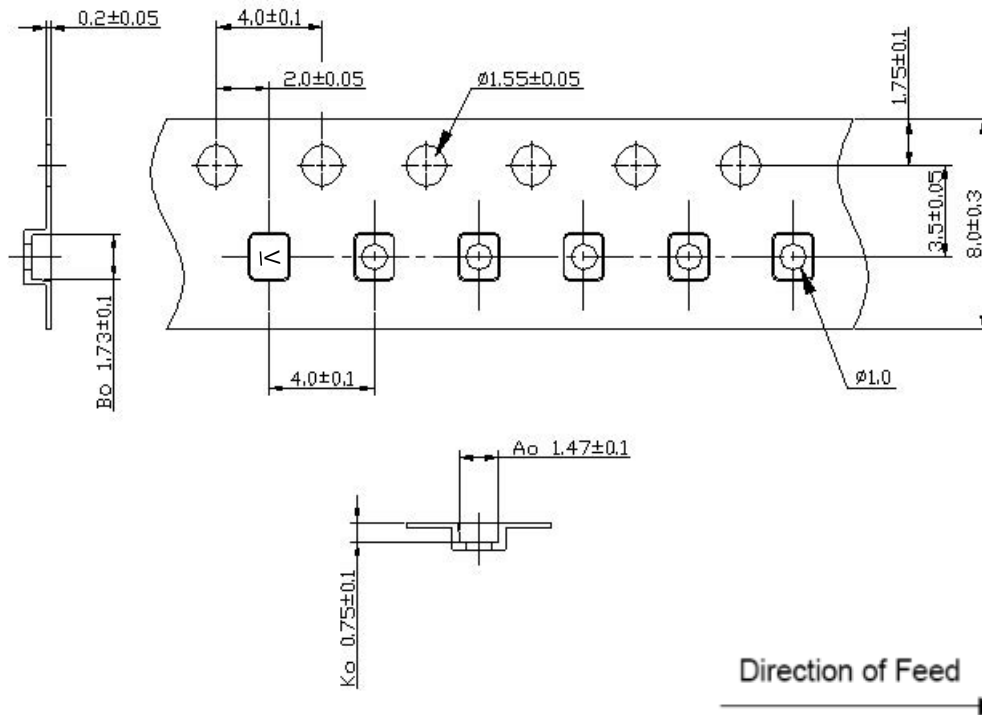
Reel Dimension

Reel Count:  
7" = 2500  
13" = 10,000

Tape and Reel Standard per ANSI/EIA-481



Tape Dimensions:



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.

