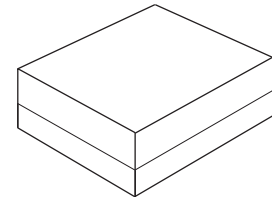


Complies with Directive 2002/95/EC (RoHS)  
Moisture Sensitivity Level: 1  
AEC-Q200 Qualified

RoHS  
Compliant

**SF2522KM**

**1202 MHz  
SAW Filter**



SM1411-5

**Absolute Maximum Ratings**

Rating	Value	Units
Input Power Level	15	dBm
DC Voltage	3	VDC
Operable Temperature Range	+40 to +105	°C
Storage Temperature Range	-40 to +105	°C

**Electrical Characteristics**

Terminating source impedance :  $Z_s = 50 \Omega$

Terminating load impedance :  $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.	Note
<b>Center Frequency</b> <b>Fc</b>	MHz	-	1202	-	-
<b>Insertion Loss</b> (1166~1238 MHz)	dB	-	2.6	4	-
<b>Amplitude ripple</b> (1166~1238 MHz)	dB	-	1	2	-
<b>Attenuation</b> (reference level from 0 dB)					
100~1106 MHz	dB	30	38	-	-
1106~1136 MHz	dB	20	35	-	-
1268~1318 MHz	dB	20	33	-	-
1318~1800 MHz	dB	25	34	-	-
1800~2000 MHz	dB	30	40	-	-
2400~2500 MHz	dB	30	36	-	-
<b>Temperature Coefficient of Frequency</b>	ppm/°C	-	-36	-	-

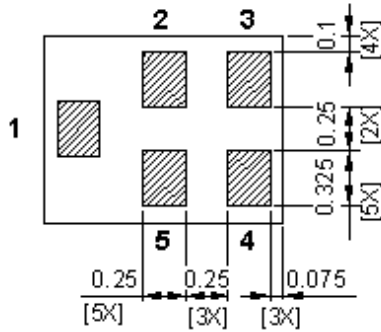
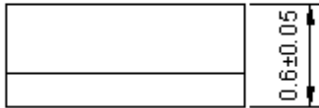
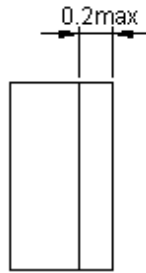
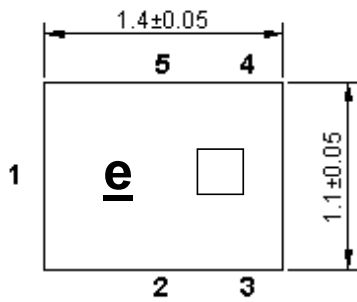


**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

**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 5 : Pin No.

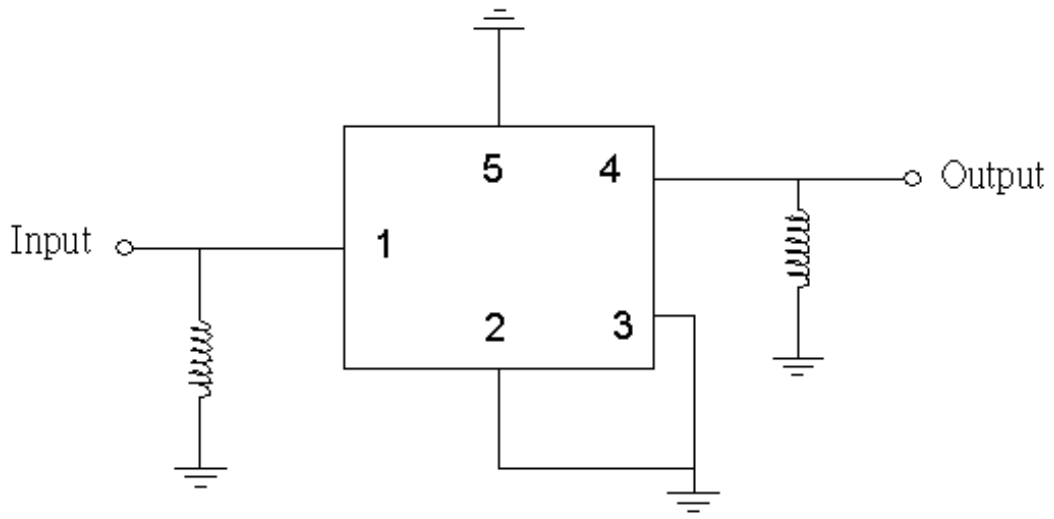
Unit : mm

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

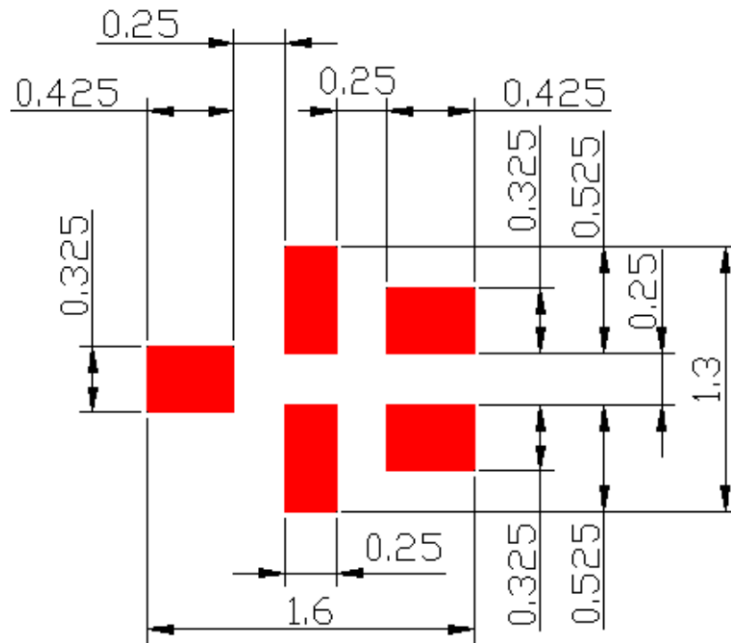
□ : Year/Month Code (Follow the table)


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

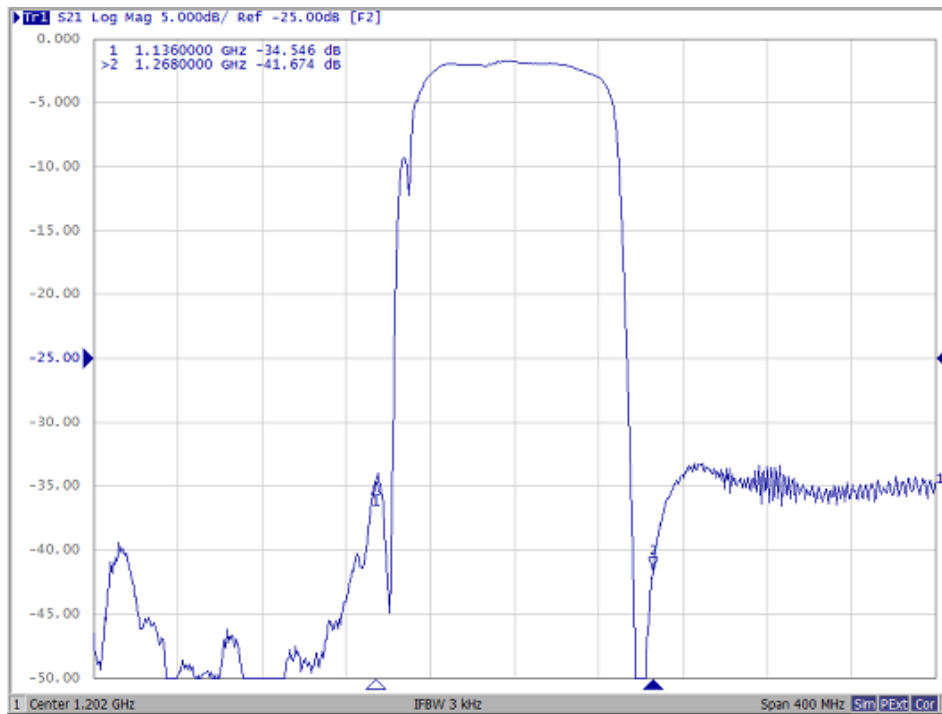
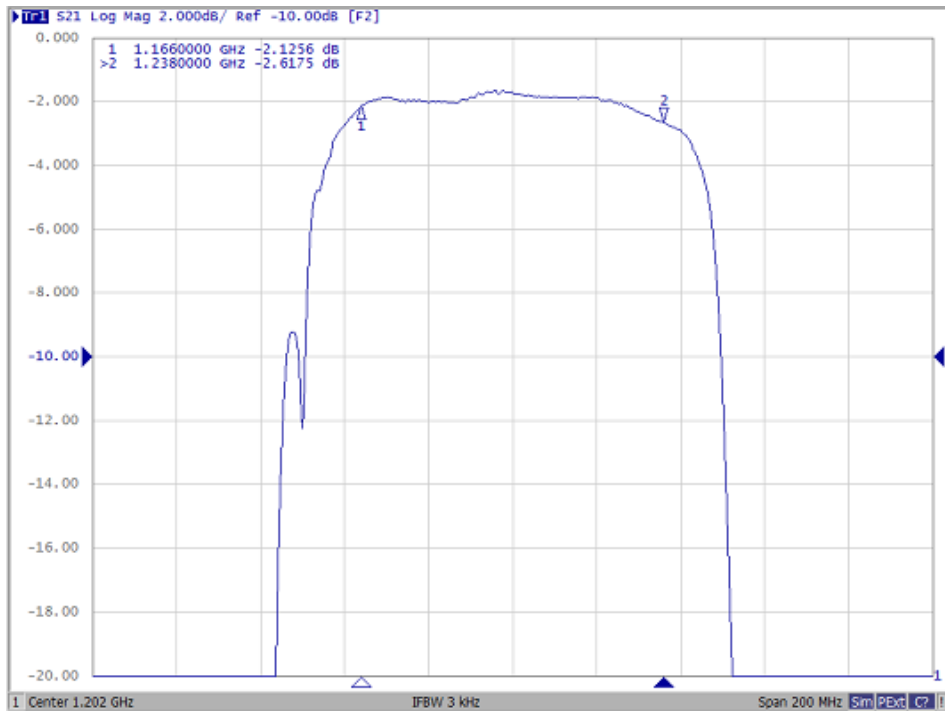


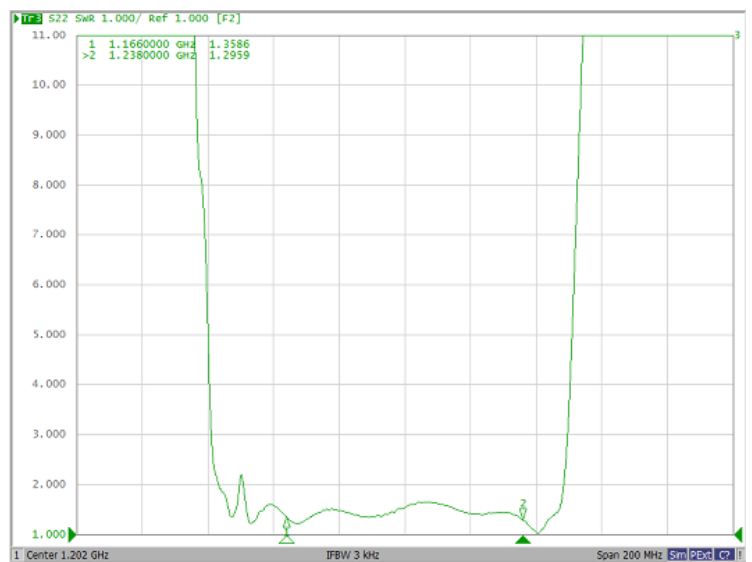
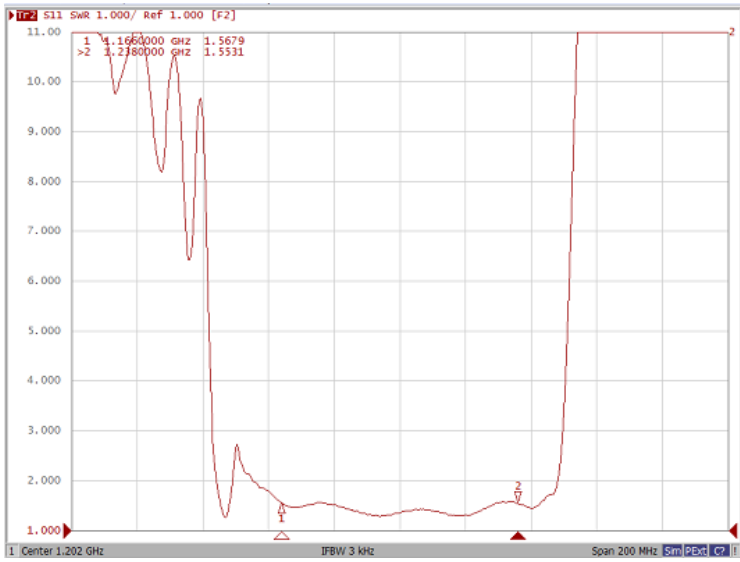
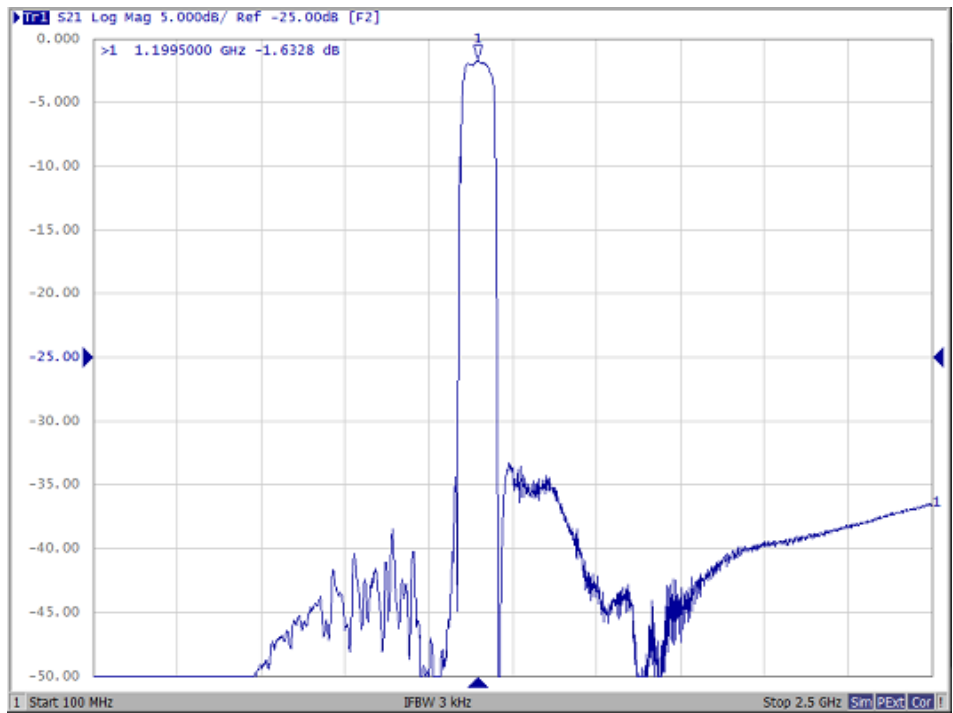
## PCB Footprint



 : Land Pattern  
Unit : mm

# Frequency Characteristics



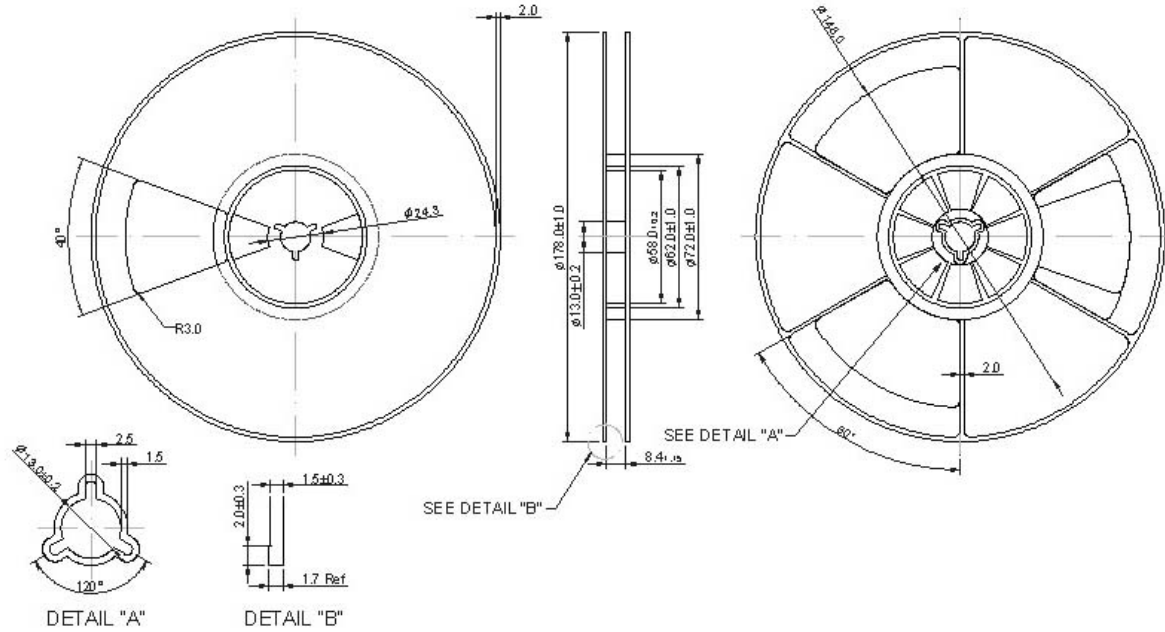


# Packing

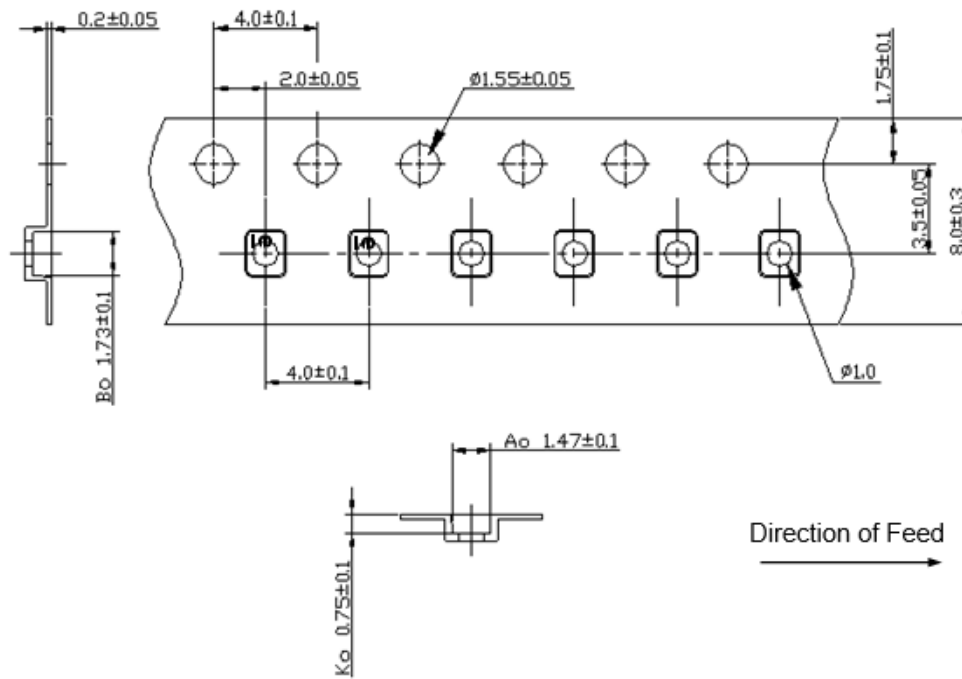
Reel Dimension

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

Tape and Reel Standard per ANSI/EIA-481



Tape Dimensions:



## 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 (10 seconds).
4. Time: 5 times maximum.

