

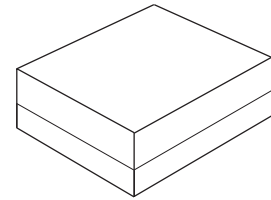
- **Miniature High Performance SAW Filter**
- **Low Passband Loss**
- **1.4 x 1.1 mm Surface-mount Case**
- **Complies with Directive 2002/95/EC (RoHS)**

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power Level @ passband	23	dBm
Input Power Level @ stop band	15	dBm
DC Voltage	0	VDC
Operable Temperature Range	+5 to +50	°C
Storage Temperature Range	-40 to +85	°C
Moisture Sensitivity Level: 3		
Symbolization: <u>C</u> Package size: SMD 1.4 x 1.1 mm		

SF2505K

**739.5 MHz
SAW Filter**



SM1411-5

Electrical Characteristics

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

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

Item	Unit	Min.	Typ.	Max.
Center frequency	MHz	-	739.5	-
Maximum Insertion Loss				
100 ~ 585 MHz	dB	-	2.5	3.0
585 ~ 600 MHz	dB	-	4.0	5.0
600 ~ 608 MHz	dB	-	5.0	7.0
Attenuation (reference from 0dB)				
617 ~ 627 MHz	dB	5	8.5	-
627 ~ 862 MHz	dB	15	19	-



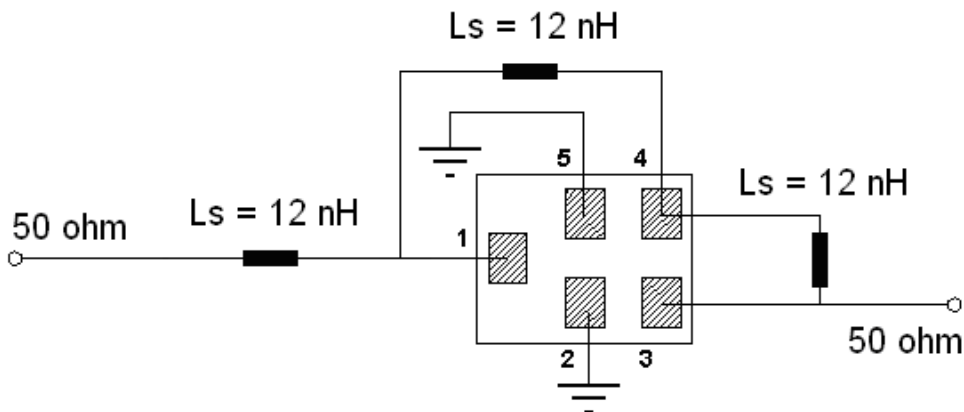
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

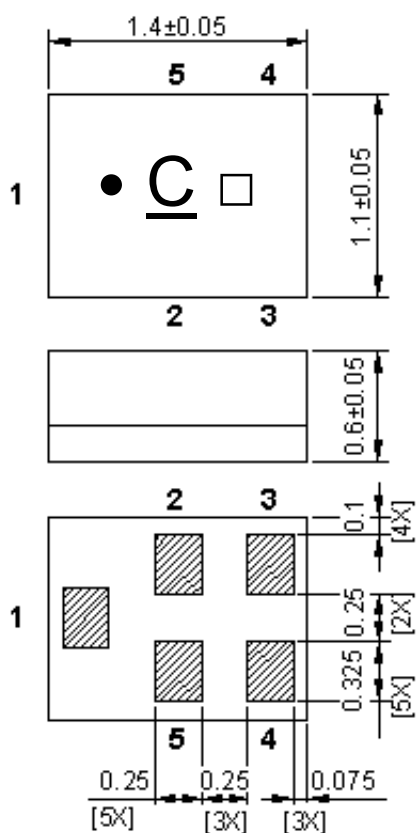
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Test Circuit

Top View (Transparent)



Outline Drawing



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

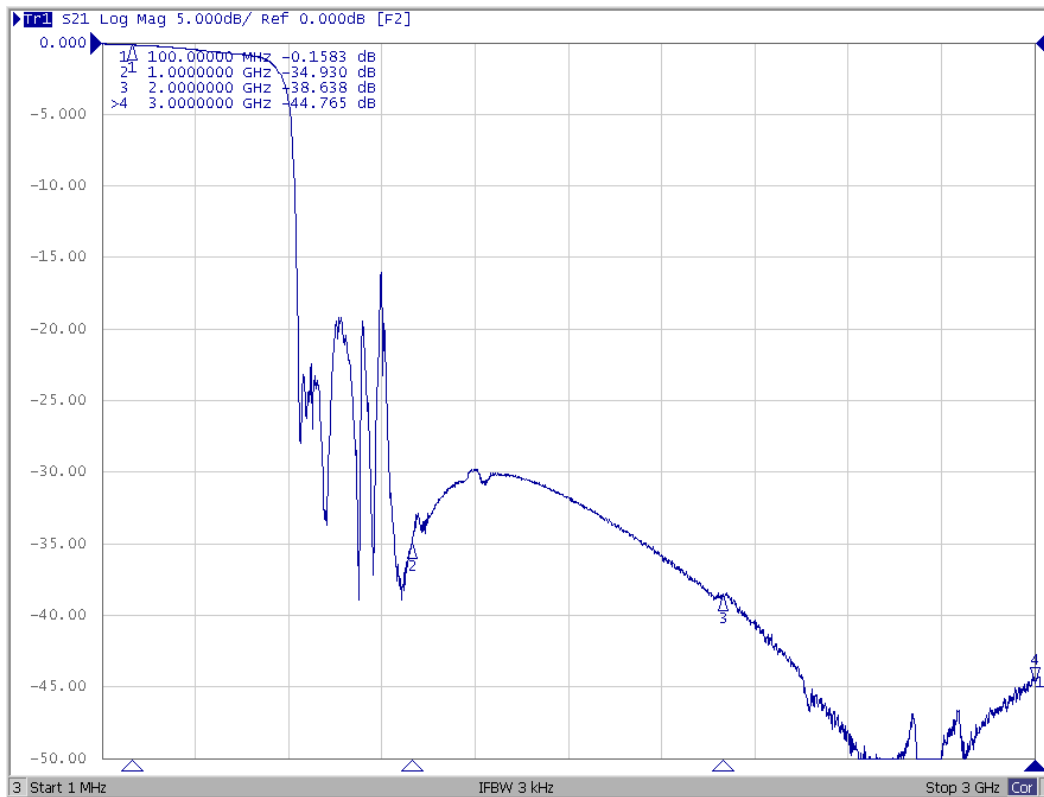
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table)

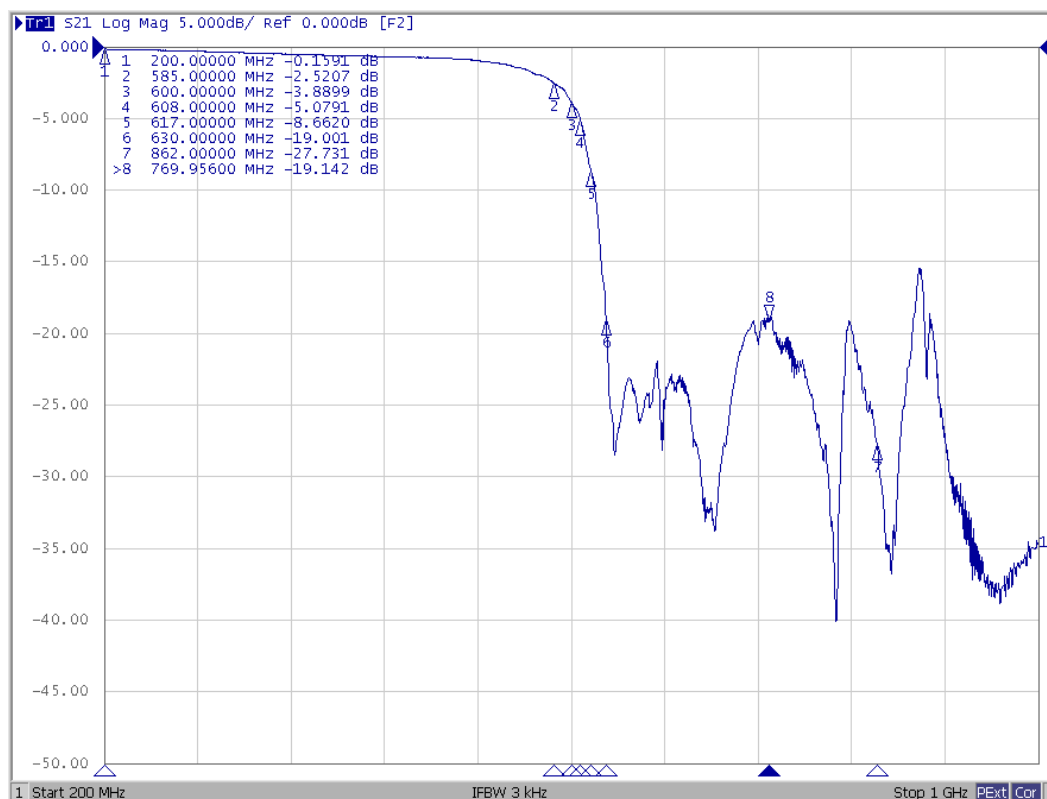
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>i</u>	<u>k</u>	<u>!</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>
2021	<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>
2022	<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>
2023	<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>
2024	<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>

Frequency Characteristics:

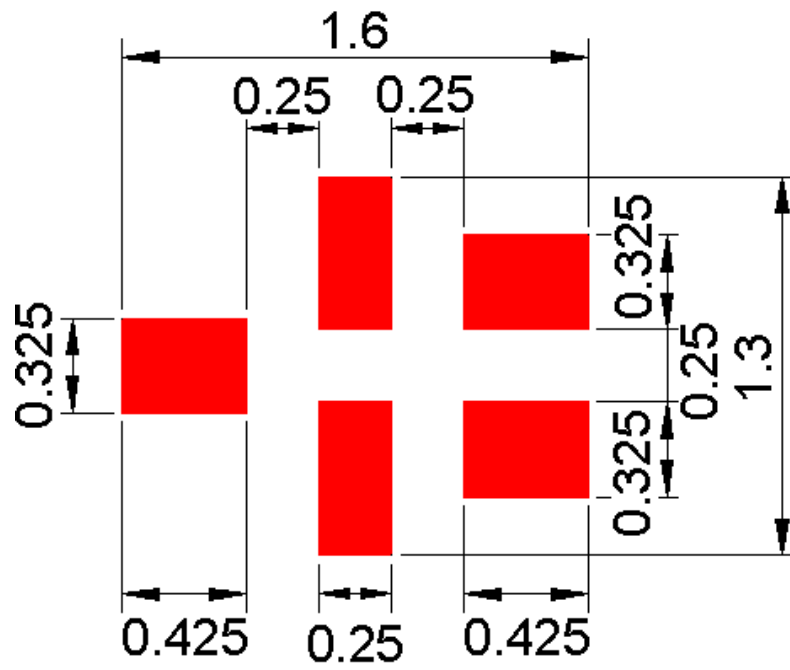
Span 3000 MHz



Span 800 MHz



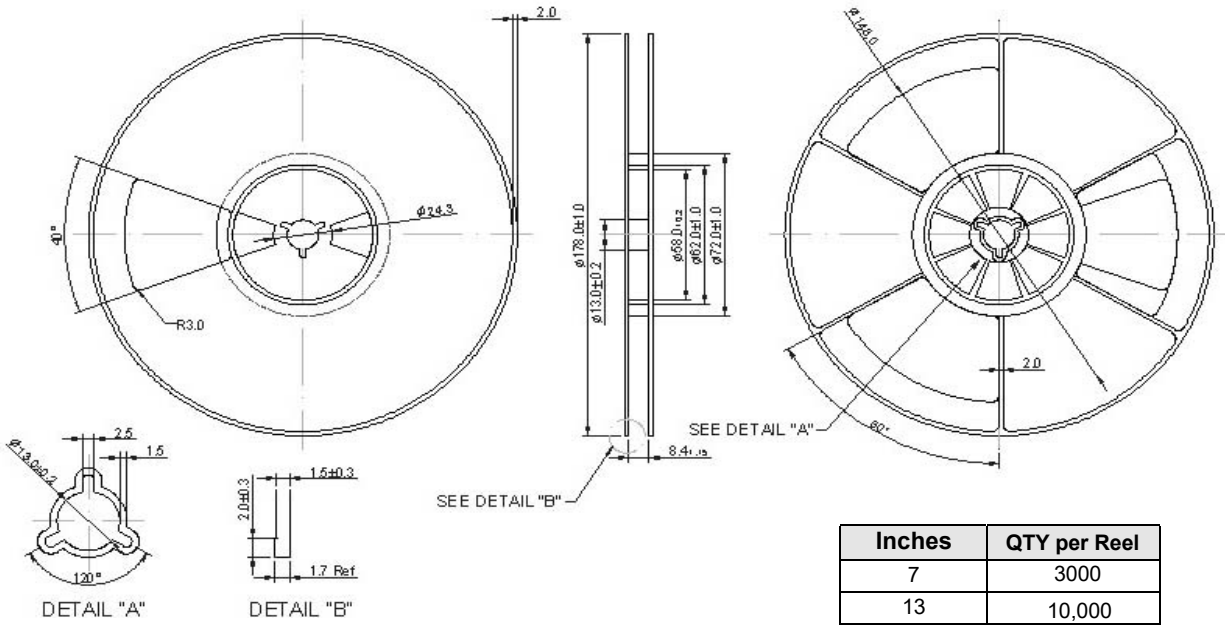
PCB Footprint



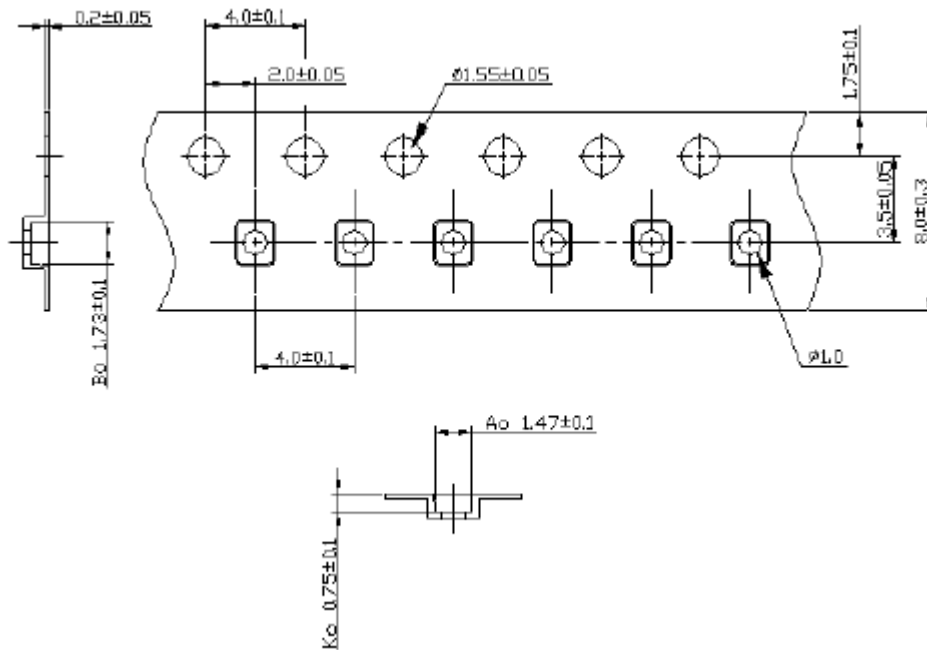
Packing

Reel Dimension

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.

