

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

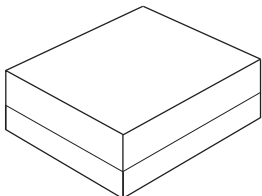
MAXIMUM RATING:

1. In Input Power Level: 23 dBm @ Pass Band
2. Input Power Level: 15 dBm @ Stop Band
3. DC voltage: 0 V
4. Operating Temperature: +0°C to +50°C
5. Storage Temperature: -40°C to +85°C
6. Moisture Sensitivity Level: Level 3 (MSL3)

ELECTRICAL CHARACTERISTICS: Terminating source impedance (single): $Z_s = 50 \Omega$ Terminating load impedance (single): $Z_L = 50 \Omega$

SF2519K

827.5 MHz
SAW Filter



SM1411-5

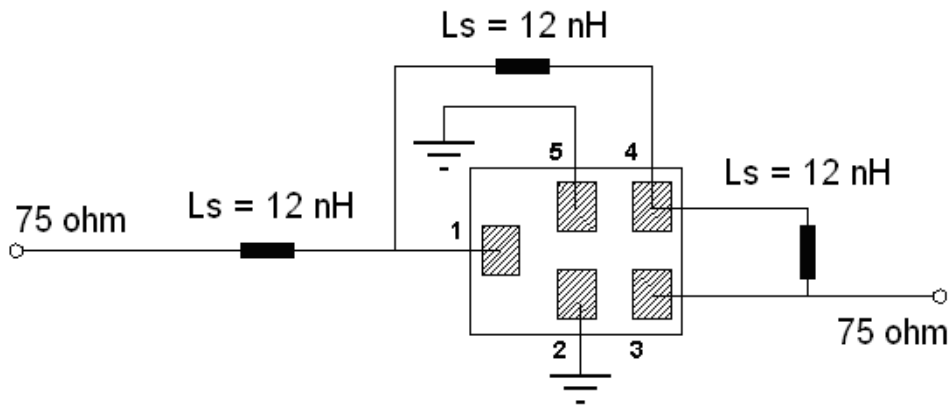
Item	Unit	Min.	Typ.	Max.
Center frequency	MHz	-	827.5	-
Maximum Insertion Loss				
47 ~ 766 MHz	dB	-	3.0	3.5
766 ~ 782 MHz	dB	-	4.8	5.5
782 ~ 785 MHz	dB		5.6	7.0
Attenuation (reference from 0dB)				
795 ~ 820 MHz	dB	6	7.7	-
820 ~ 860 MHz	dB	15	20	-

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

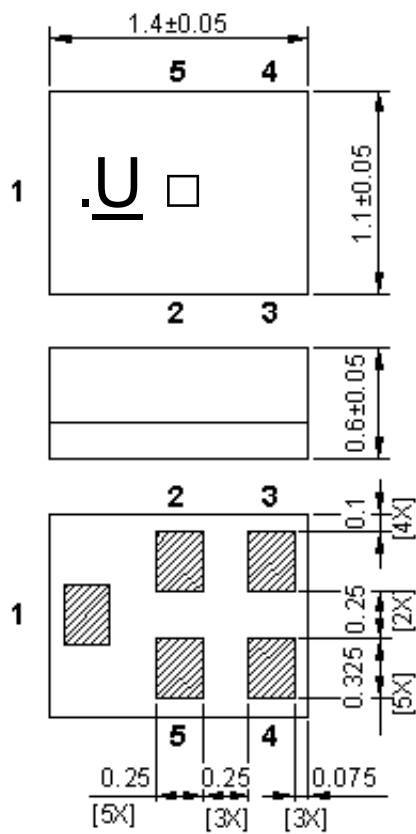
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

TEST CIRCUIT:

Top View (Transparent)



OUTLINE:



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	OUT	Output
4	GND	Ground
5	GND	Ground

□ : Year/Month Code (Follow the table)

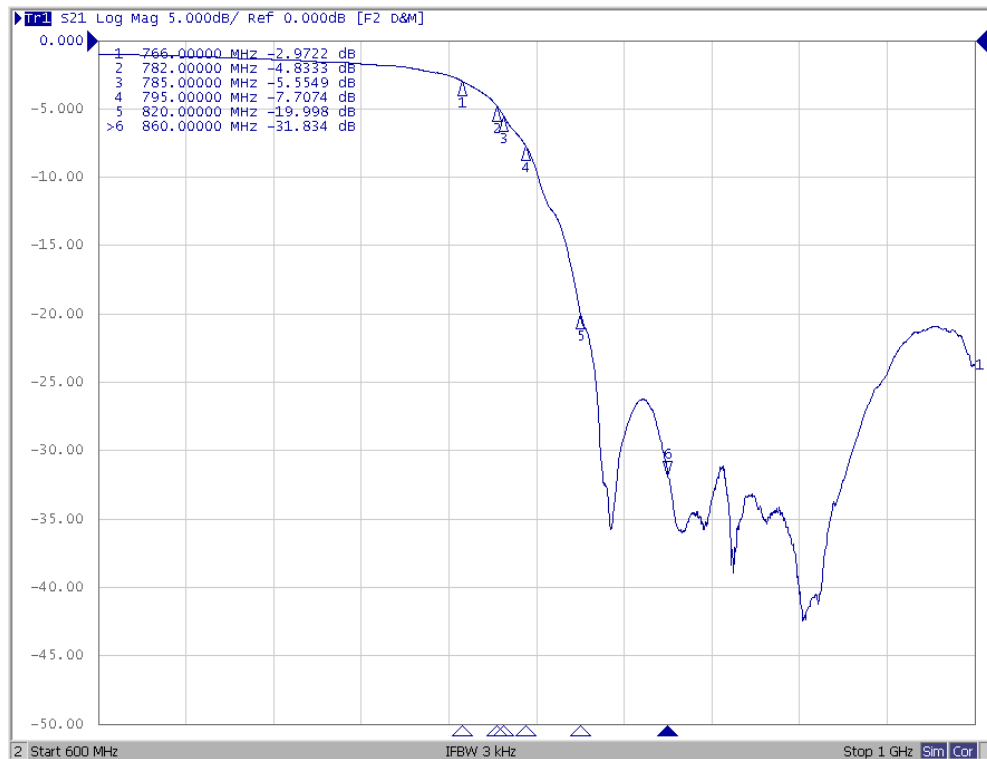
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d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

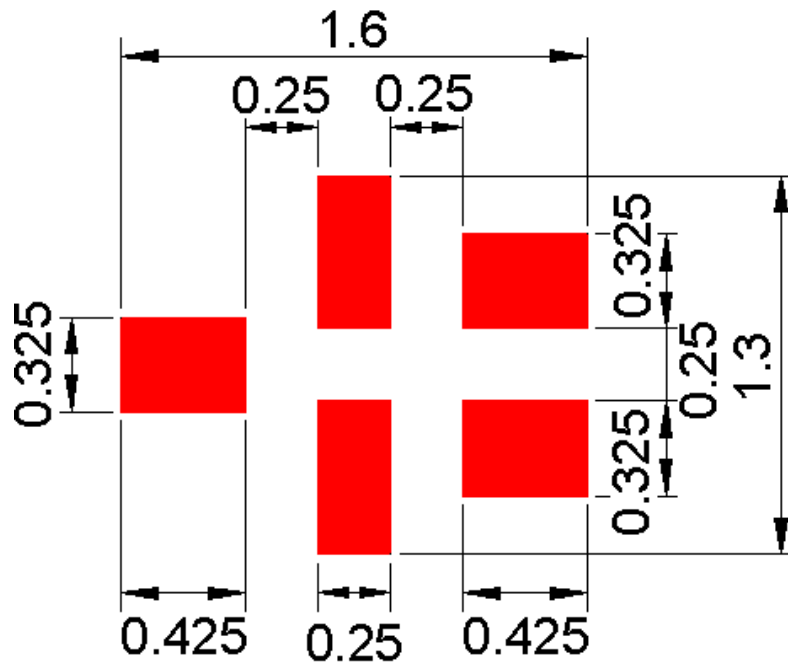
Span 3000 MHz



Span 400 MHz



PCB FOOTPRINT:

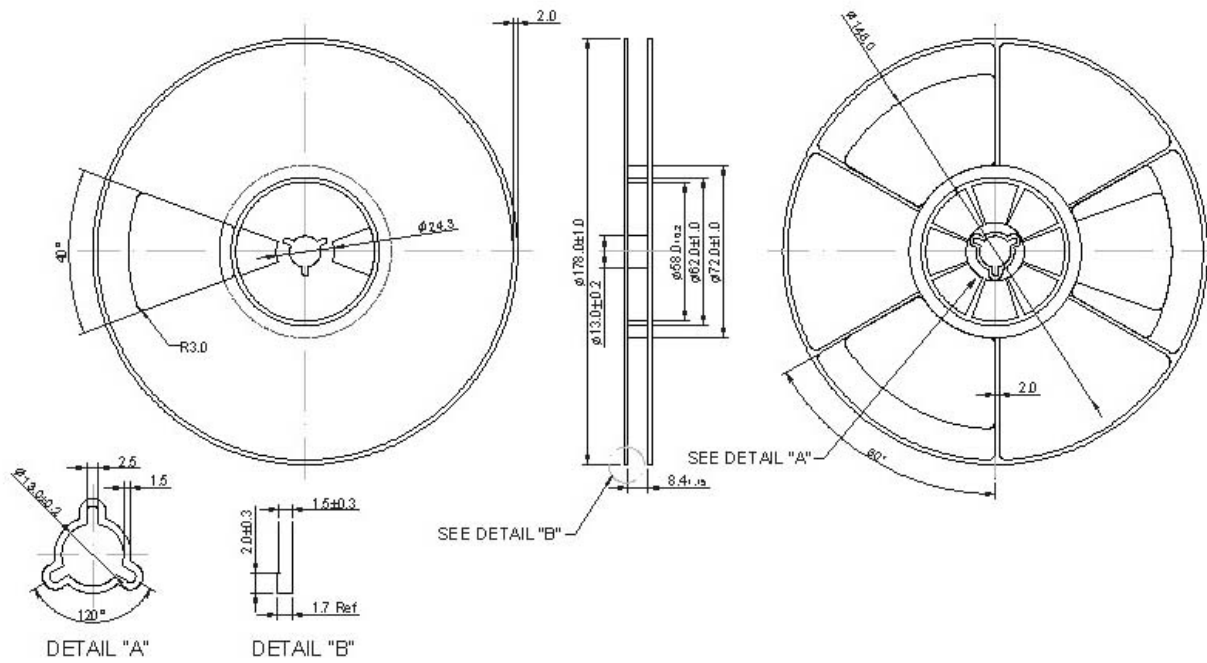


PACKING:

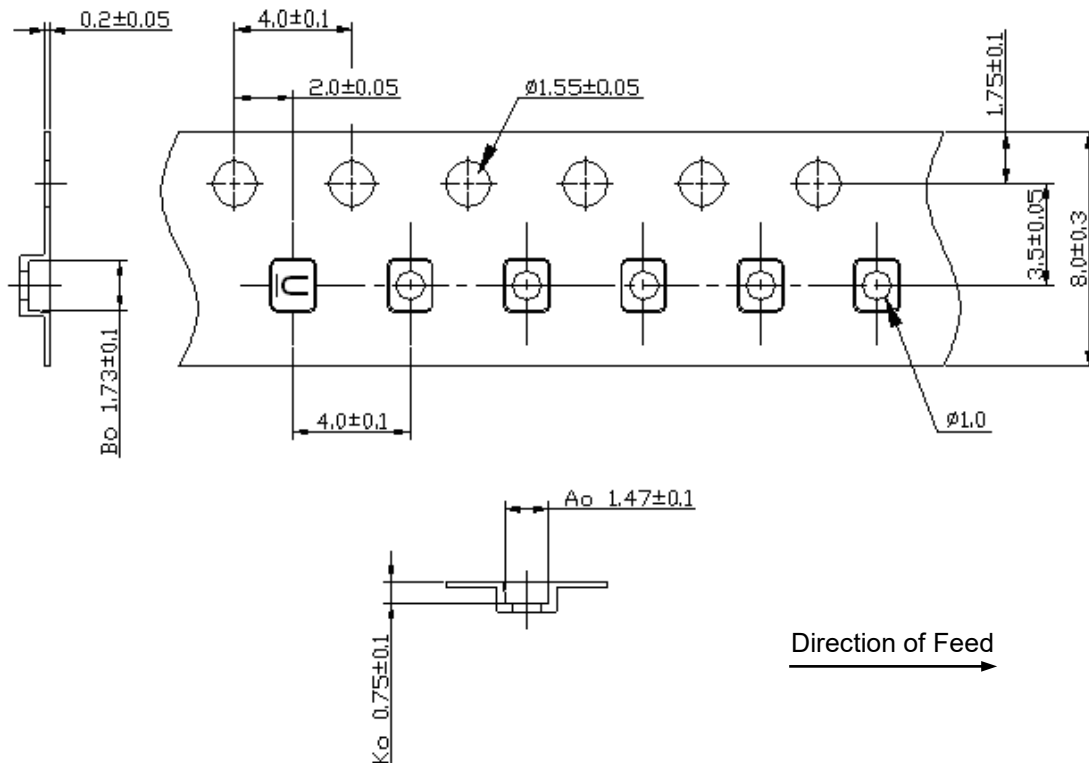
Reel Count: 7" = 3000

1. REEL DIMENSION

(Packing quantities follow customer's order) Tape and Reel Standard per ANSI/EIA-481



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

