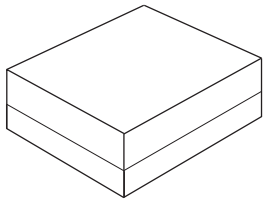
RFMi
A BRAND OF AKOUSTIS

Preliminary

RoHS compliant

SF2518K

700 MHz SAW Filter



SM1411-5

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): Zs = 50 Ω Terminating load impedance (single): ZL = 50 Ω

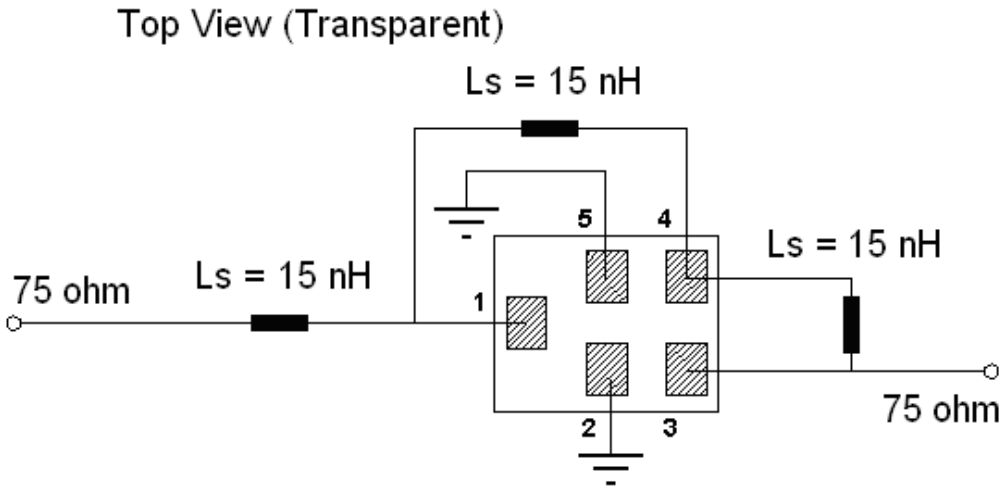
Item	Unit	Min.	Typ.	Max.
Center frequency	MHz	-	700.0	-
Maximum Insertion Loss				
40 ~ 678 MHz	dB	-	3.5	4.0
678 ~ 694 MHz	dB	-	6.0	9.0
Attenuation (reference from 0dB)				
703 ~ 715 MHz	dB	5	12	-
715 ~ 862 MHz	dB	12	18	-

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

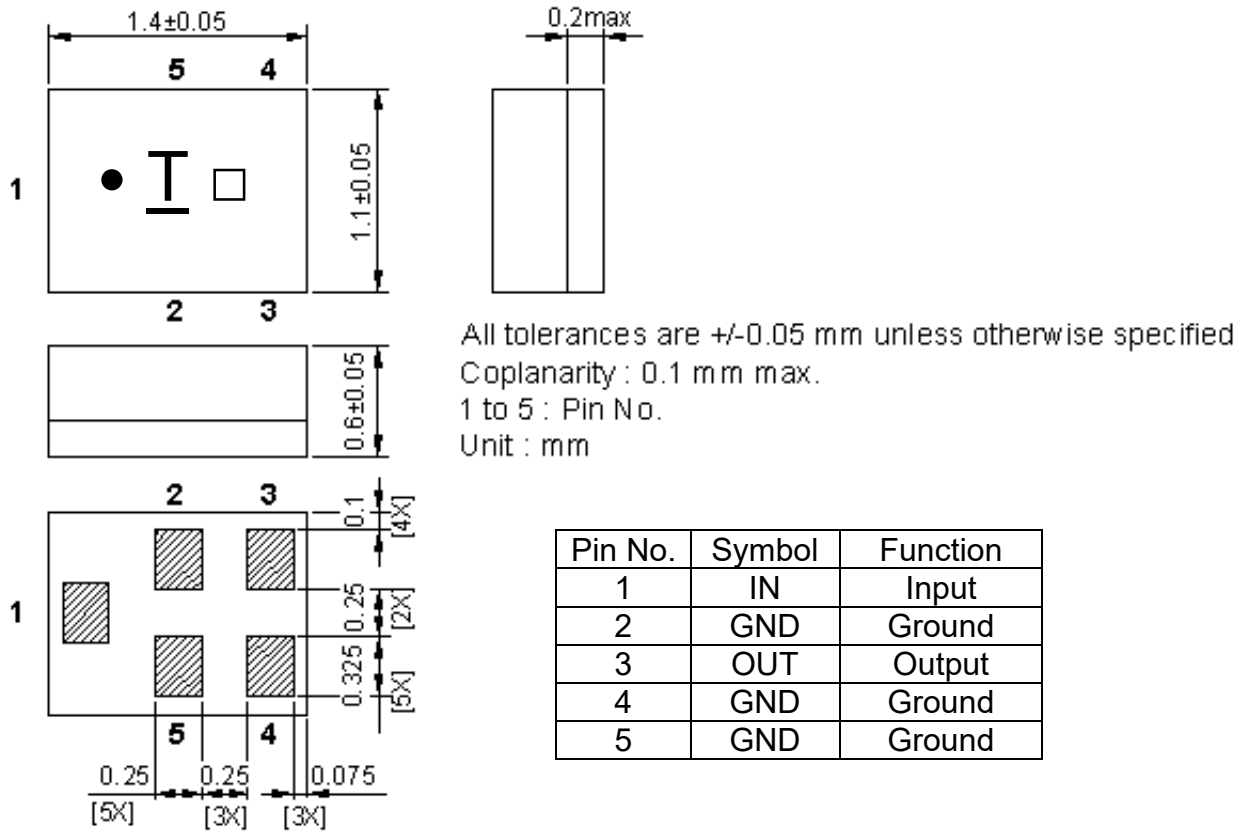
NOTES:

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:



OUTLINE DRAWING:



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

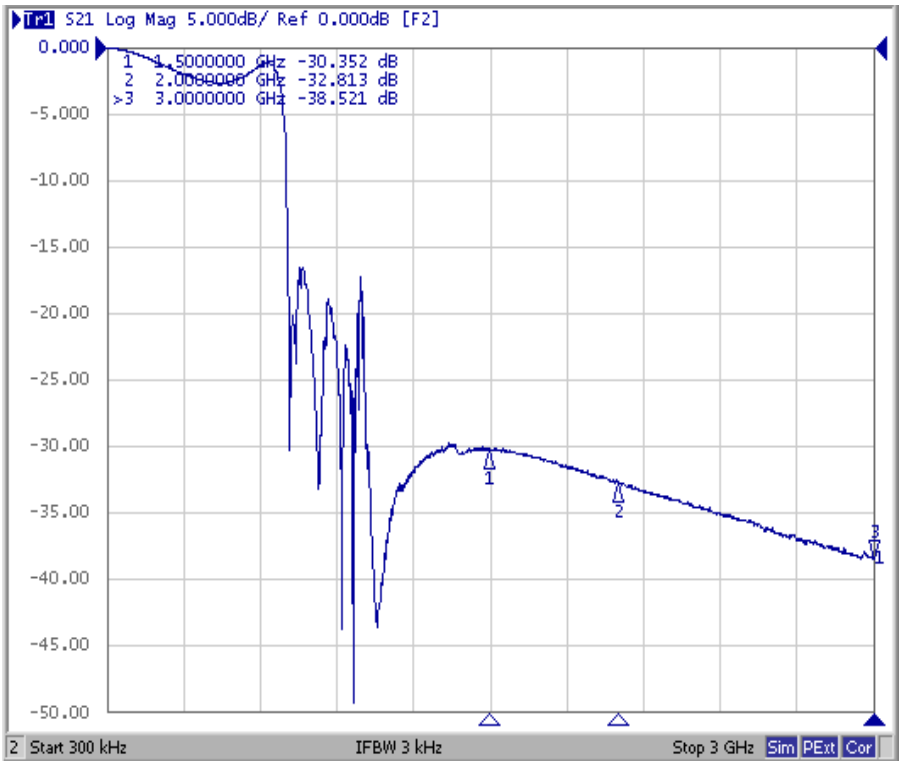
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	OUT	Output
4	GND	Ground
5	GND	Ground

□ : Year/Month Code (Follow the table)

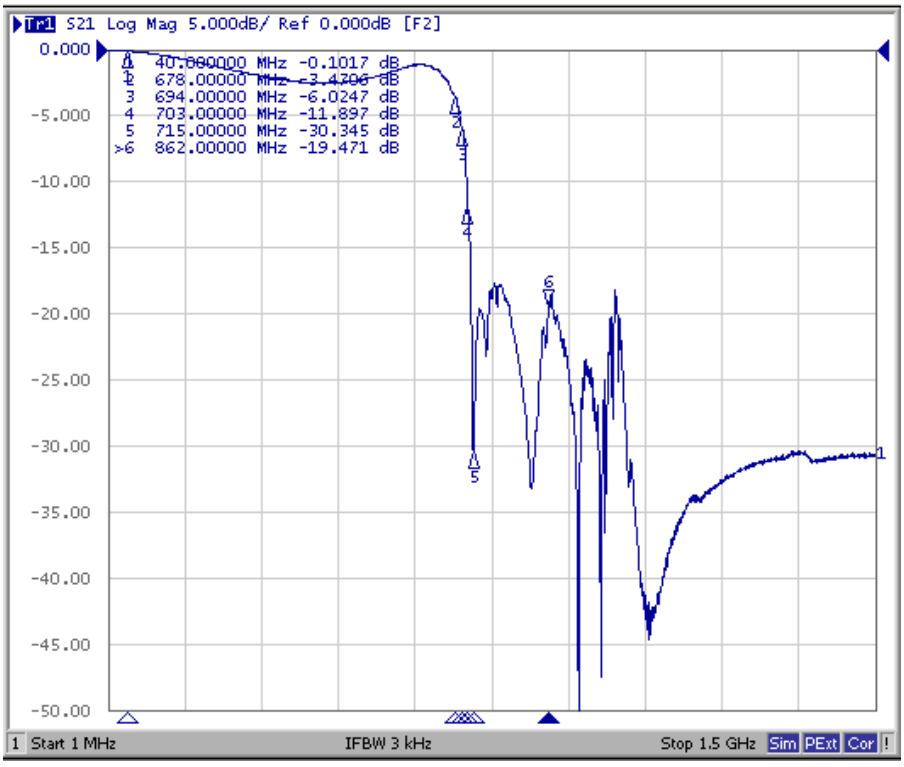
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2017	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2018	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2019	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2020	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2021	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2022	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2023	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2024	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

Frequency Characteristics:

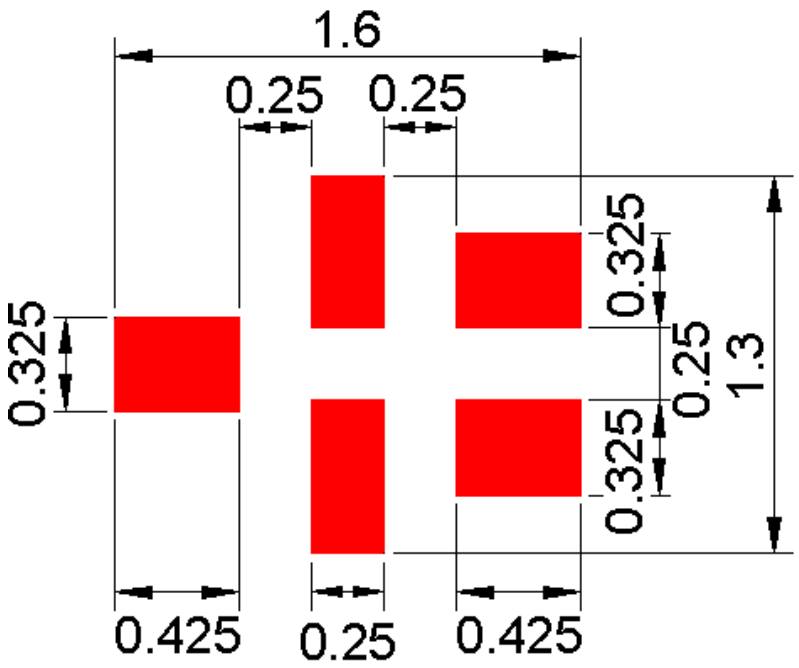
Span 3000 MHz



Span 800 MHz



PCB FOOTPRINT:

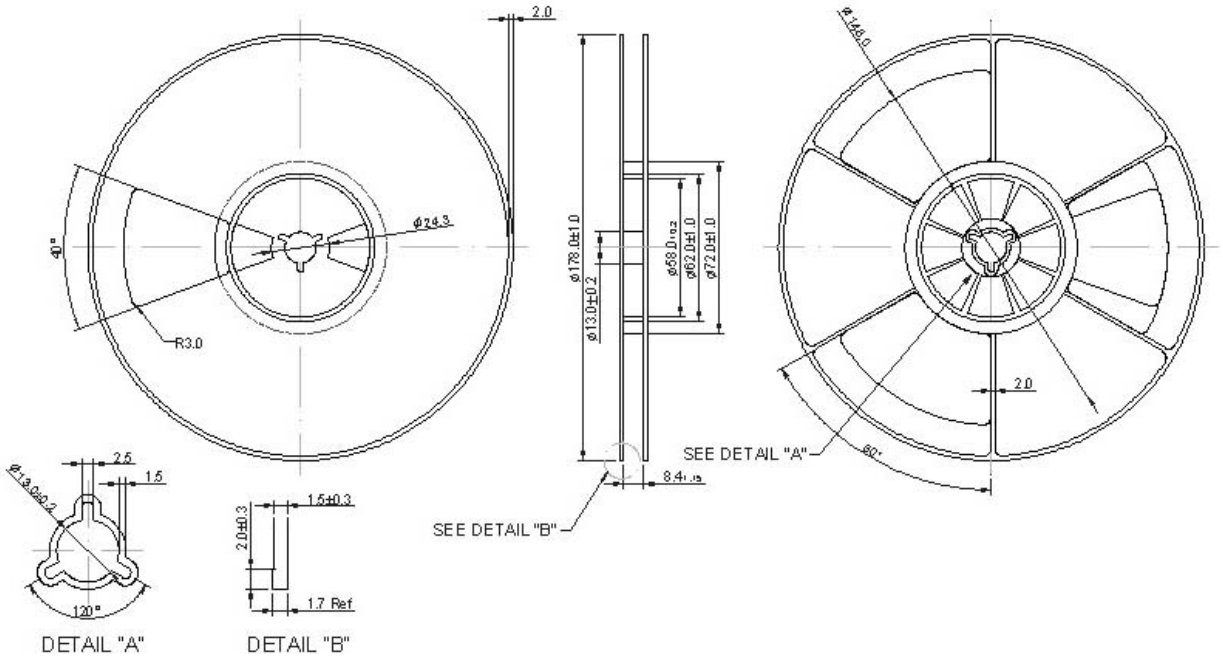


PACKING:

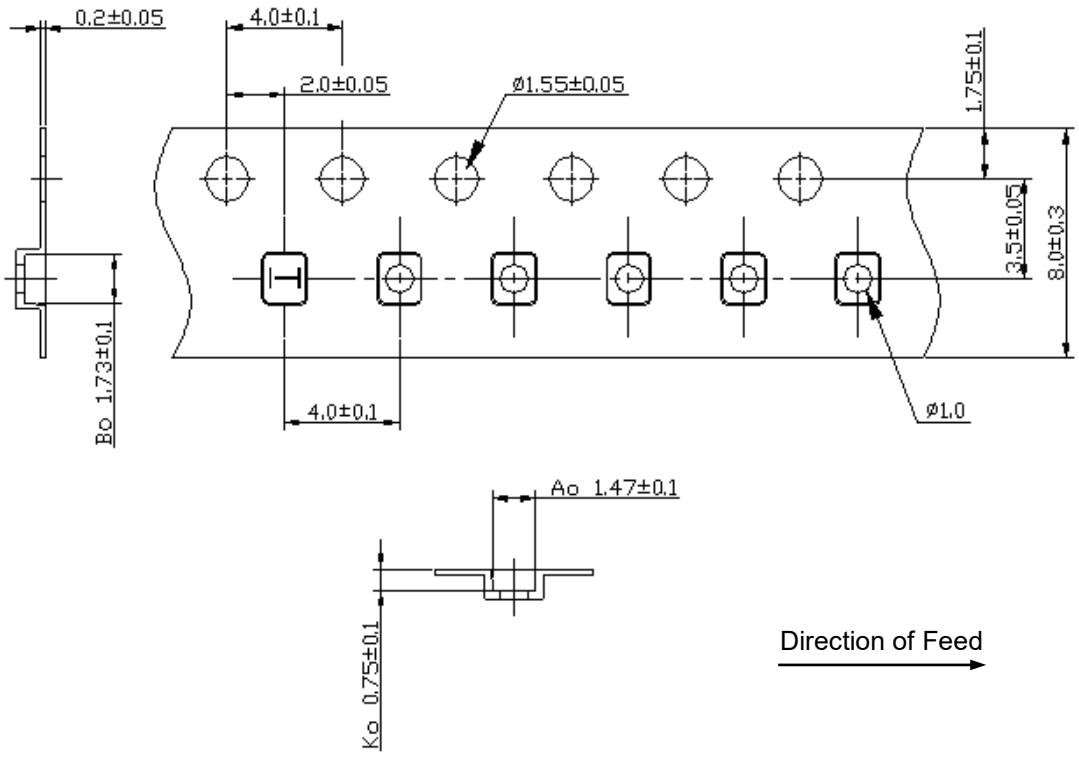
REEL DIMENSION

Reel Count:
7" = 3000

Tape and Reel Standard per ANSI/EIA-481



TAPE DIMENSION



RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. ime: 2 times.