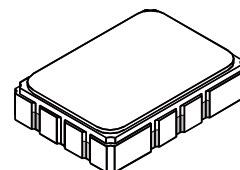


- 169.4375 MHz Narrow-band SAW Filter
- Steep Transition to Stopband
- Hermetic 5 X 7 mm Surface Mount Case
- Complies with Directive 2002/95/EC (RoHS)
- AEC-Q200 Qualified



SF2367B

**169.4375 MHz
SAW Filter**



SMP-03

Absolute Maximum Ratings

Rating	Value	Units
Input Power	+10	dBm
DC Voltage on any Non-ground Terminal	5	VDC
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Soldering profile - 2 cycles maximum	245 to 260°C for 10 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
3 dB Center Frequency	F _C		169.4075	169.4375	169.4675	MHz
Insertion Loss at Center Frequency IL _c	IL _c			3	4.5	dB
3 dB Bandwidth			80	100		kHz
Rejection: (reference to IL _c)						dB
F _c - 5MHz to F _c - 0.9 MHz			40	60		
F _c + 0.9MHz to F _c + 0.92MHz			38	45		
F _c + 0.92MHz to F _c + 4MHz			40	50		
F _c + 4MHz to F _c + 5MHz			50	60		
Case Style	SMP-03 5 x 7 mm Nominal Footprint					
Lid Symbolization (YY=year, WW=week, S=shift)	RFM SF2367B YYWWS					

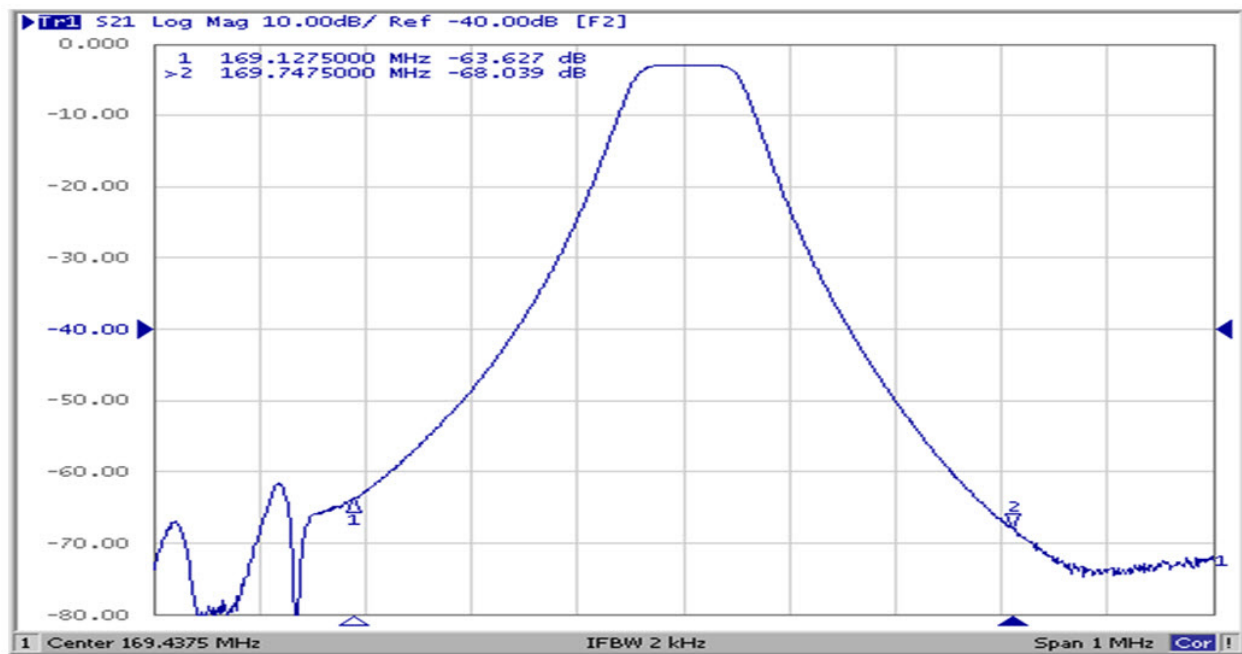
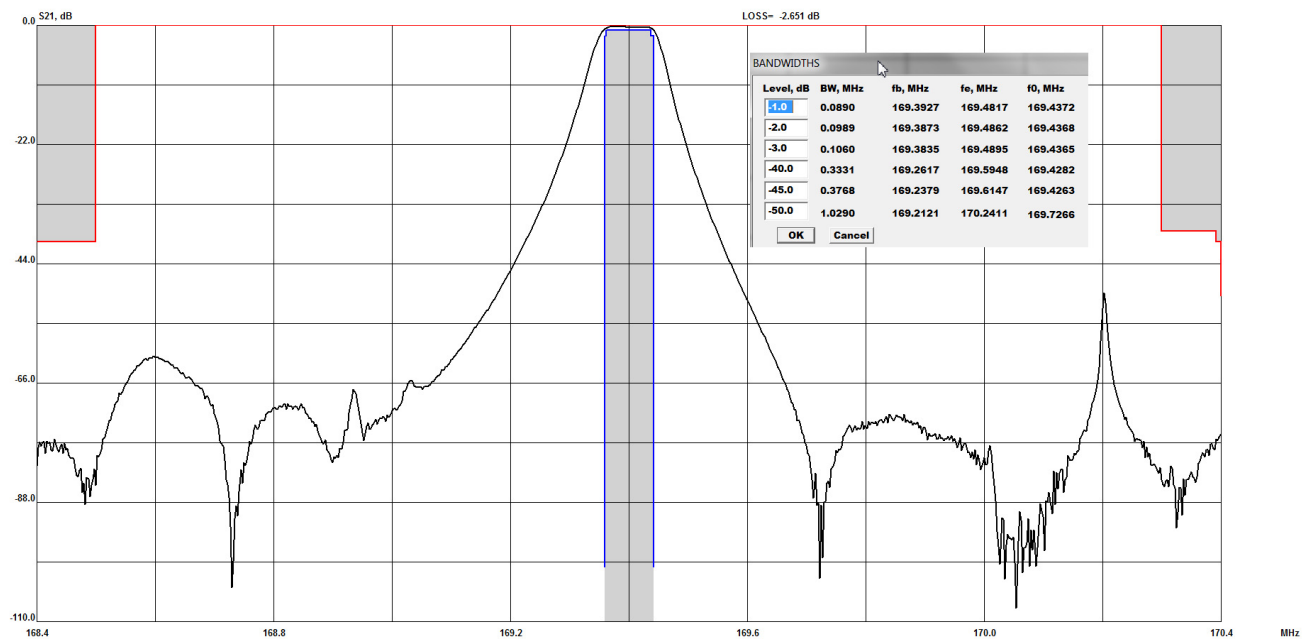


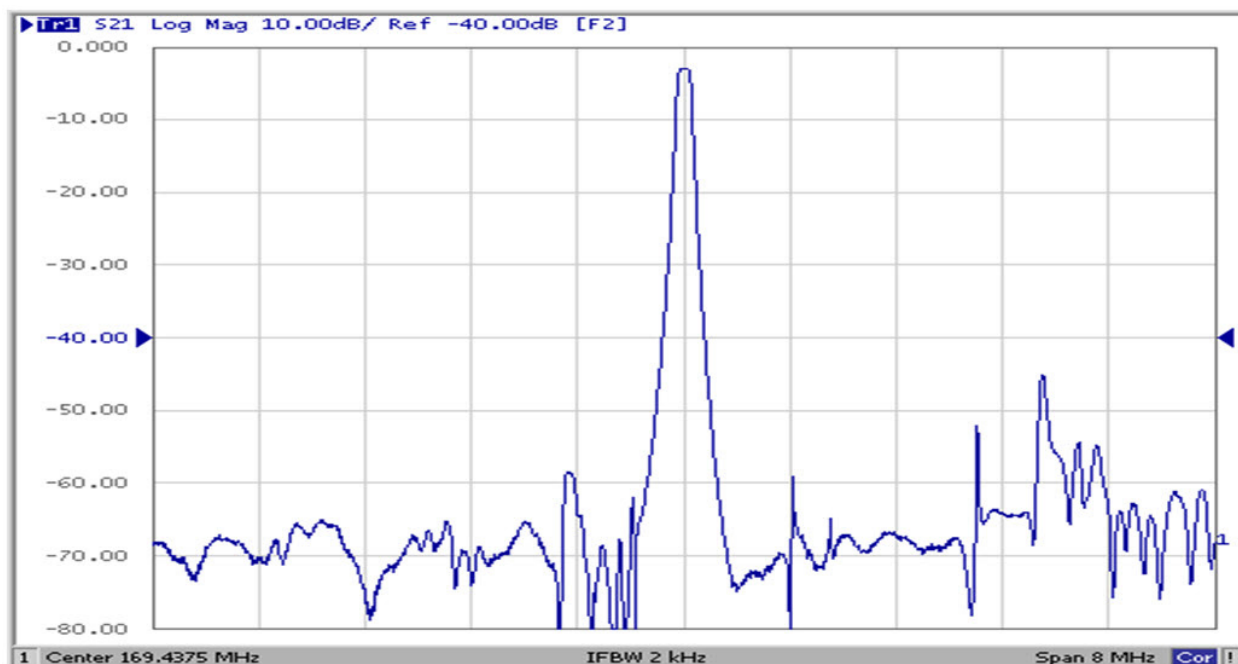
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

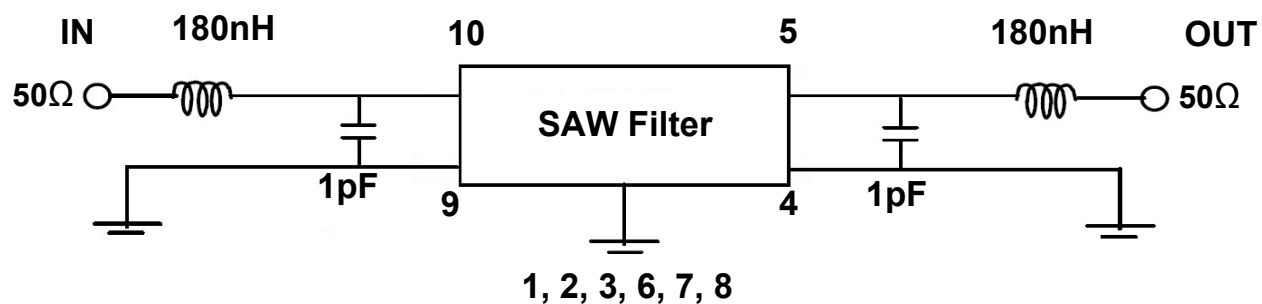
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics





Measurement Circuit

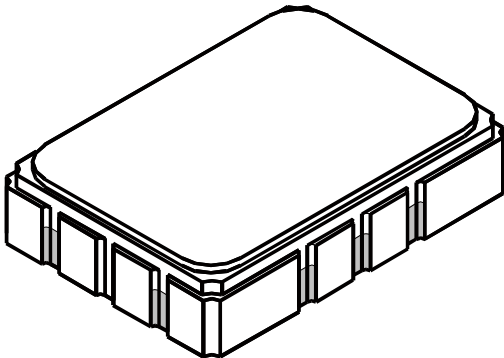


Electrical Connections

Connection	Terminals
Input	10
Output	5
Balanced Input or Input Ground	9
Balanced Output or Output Ground	4
Ground	1, 2, 3, 6, 7, 8

SMP-03 Case

10-Terminal Ceramic Surface-Mount Case 5 x 7 mm Nominal Footprint

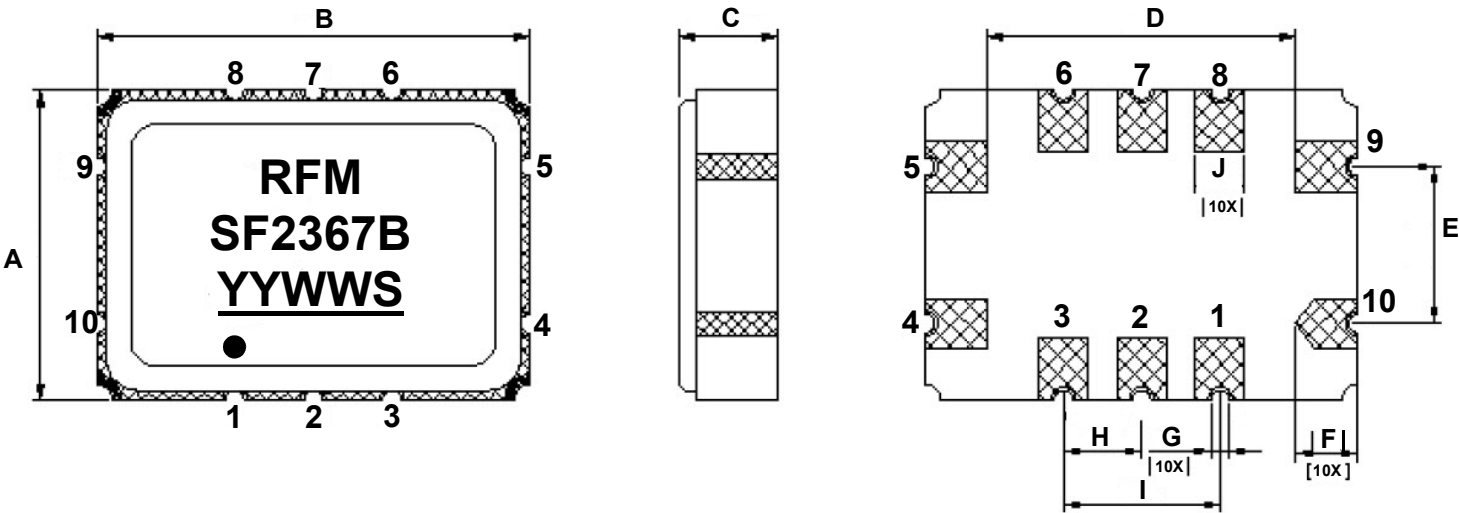


Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	-	7.00	-	-	0.276	-
B	-	5.00	-	-	0.197	-
C	-	-	1.80	-	-	0.070
D	-	5.00	-	-	0.197	-
E	-	2.54	-	-	0.100	-
F	-	1.00	-	-	0.039	-
G	-	0.30	-	-	0.011	-
H	-	1.27	-	-	0.050	-
I	-	2.54	-	-	0.100	-
J	-	0.60	-	-	0.024	-

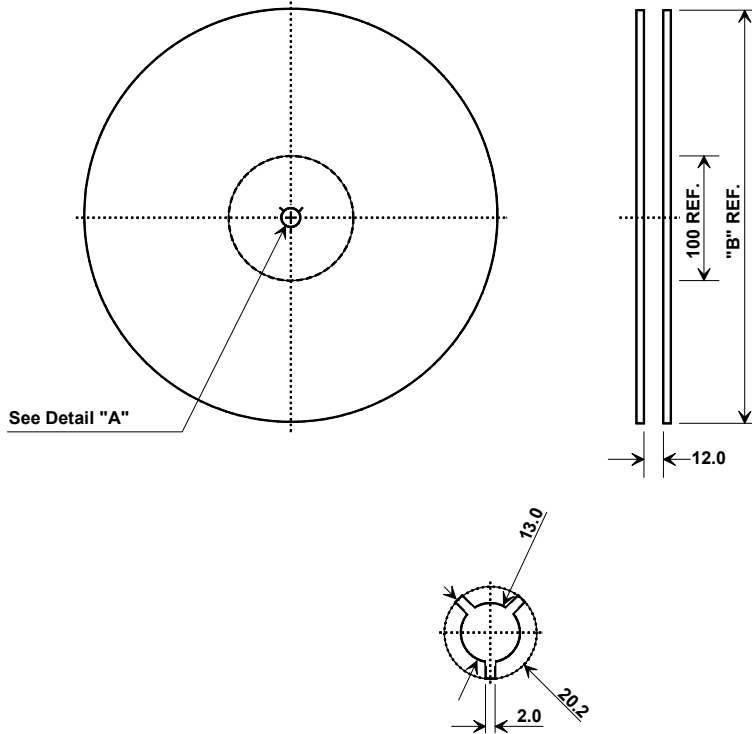
Case Materials

Materials	
Solder Pad Plating	0.3 to 1.0 μ m Gold over 1.27 to 8.89 μ m Nickel
Lid Plating	2.0 to 3.0 μ m Nickel
Body	Al ₂ O ₃ Ceramic
Pb Free	



Tape and Reel Specifications

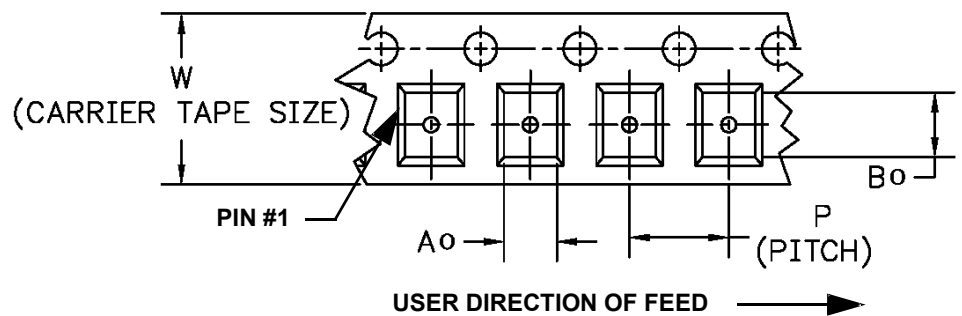
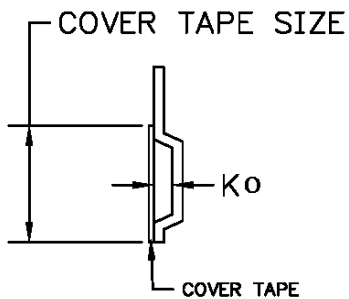
Tape and Reel Standard per ANSI/EIA-481



"B"		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000

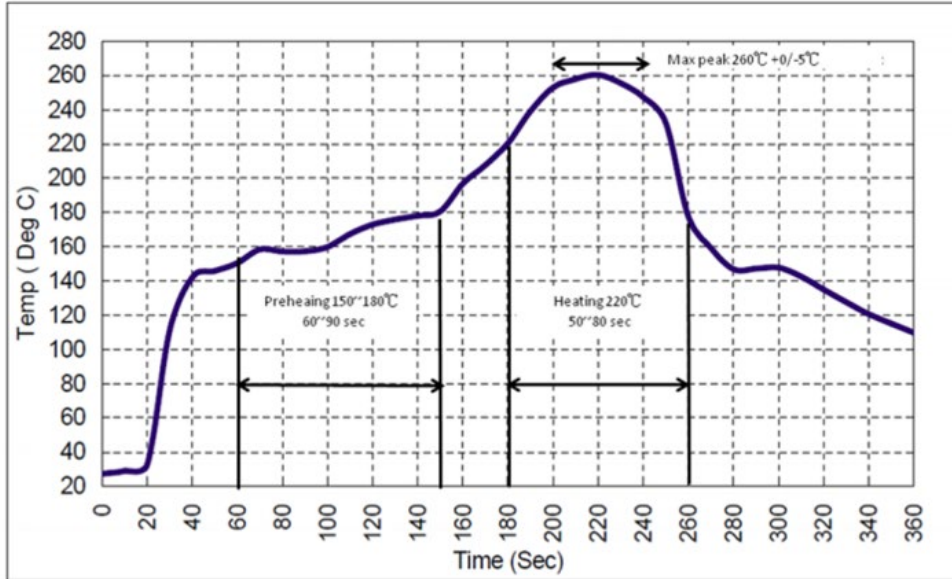
COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
Ao	5.6 ± 0.1 mm
Bo	7.6 mm
Ko	1.9 ± 0.1 mm
Pitch	8.0 ± 0.1 mm
W	16.0 ± 0.3 mm



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.



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