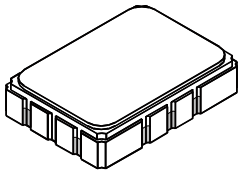
RFMi
A BRAND OF AKOUSTIS

RoHS compliant

SF2367B

169.4375 MHz SAW Filter

- ***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)***
- ***Moisture Sensitivity Level: 1***



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 ILc	ILc			3	4.5	dB
3 dB Bandwidth			80	100		kHz
Rejection: (reference to ILc)						dB
Fc - 5MHz to Fc - 0.9 MHz			40	60		
Fc + 0.9MHz to Fc + 0.92MHz			38	45		
Fc + 0.92MHz to Fc + 4MHz			40	50		
Fc + 4MHz to Fc + 5MHz			50	60		

Case Style	SMP-03 5 x 7 mm Nominal Footprint
Lid Symbolization (YY=year, WW=week, S=shift, ## = Sequence Code)	RFM, SF2367B, YYWWS##

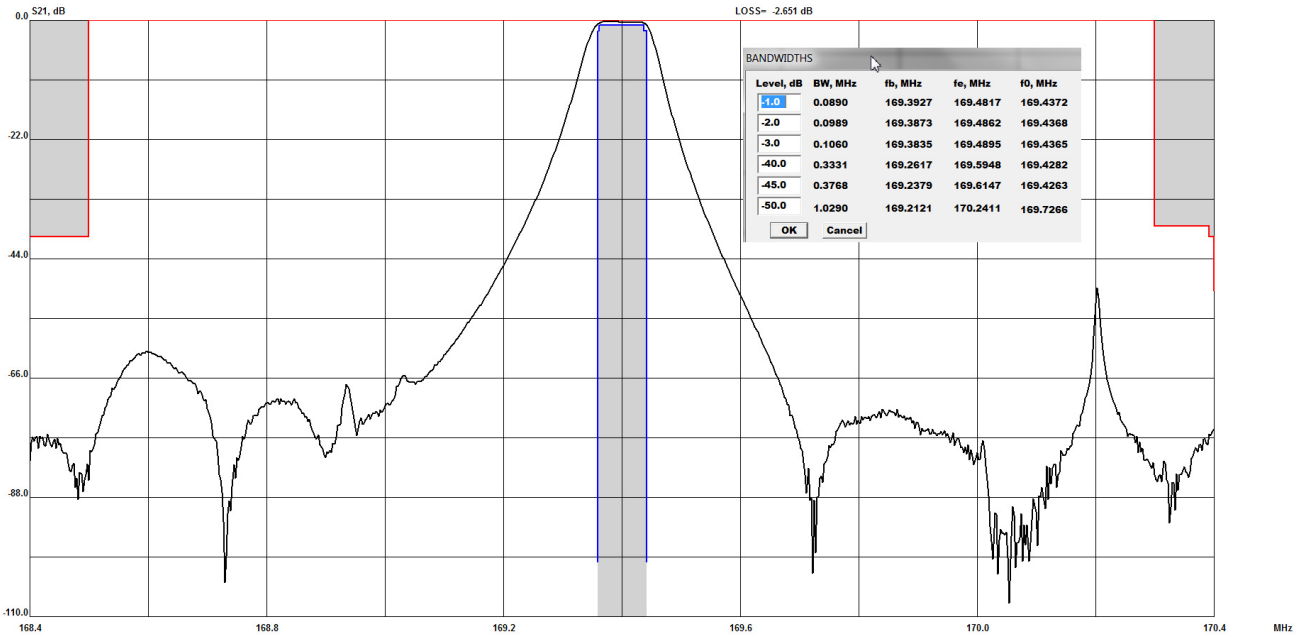
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

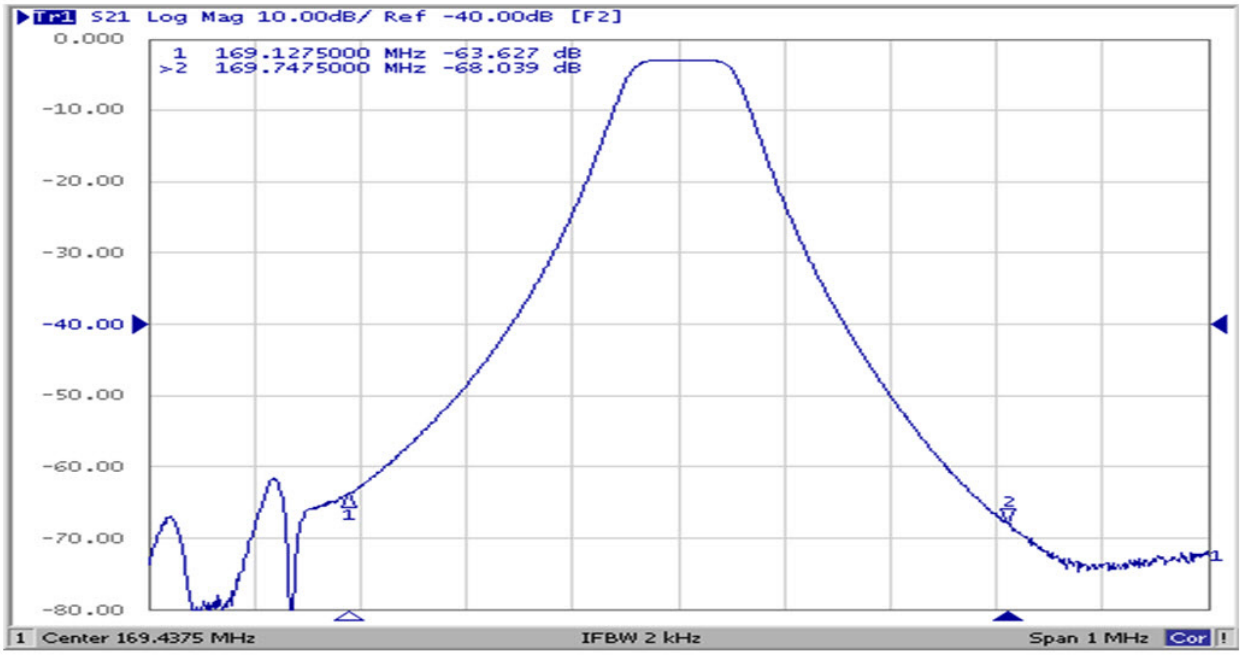
NOTES:

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.

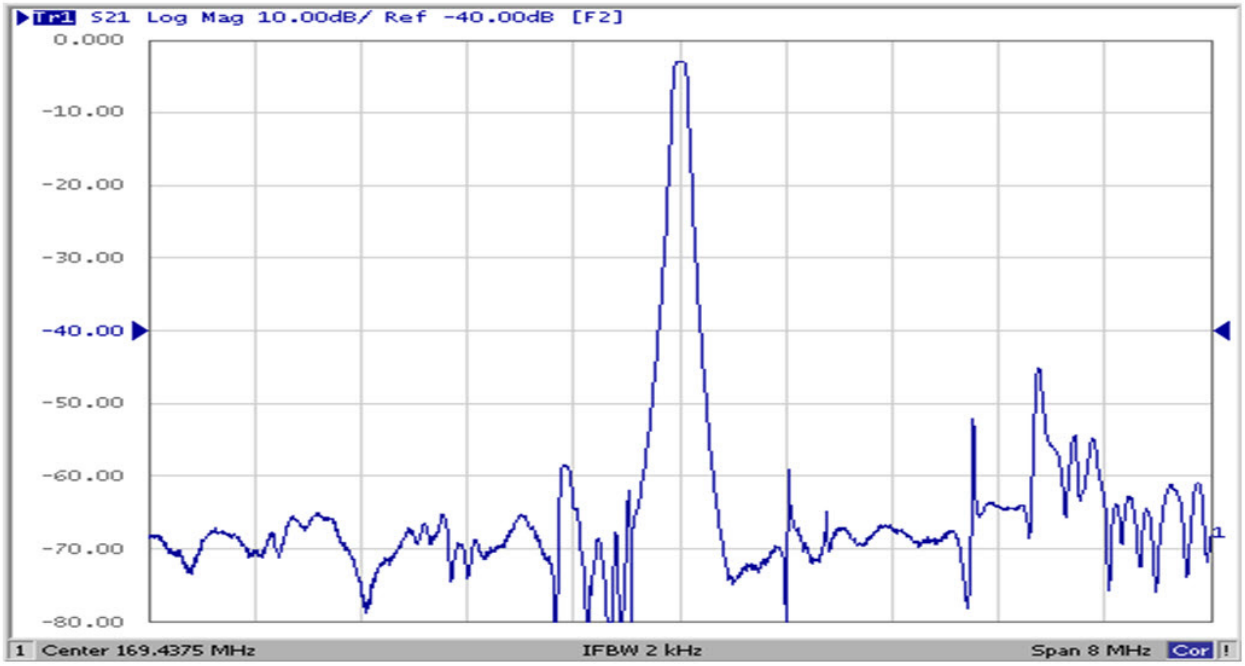
© 2014 by RFM Integrated Device, Inc.

Frequency Characteristics

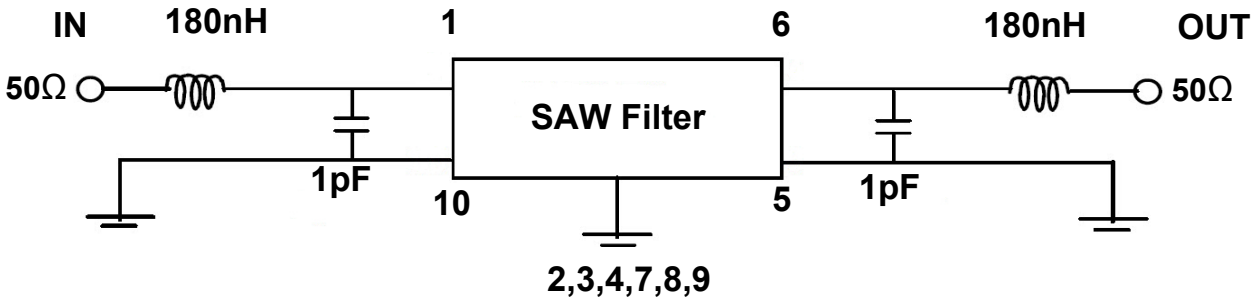




© 2014 by RFM Integrated Device, Inc.



Measurement Circuit



Electrical Connections

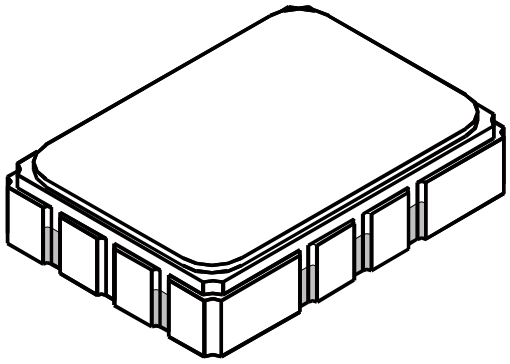
Connection	Terminals
Input	1
Output	6
Balanced Input or Input Ground	10
Balanced Output or Output Ground	5
Ground	2,3,4,7,8,9

© 2014 by RFM Integrated Device, Inc.

SMP-03 Case

10-Terminal Ceramic Surface-Mount Case

5 x 7 mm Nominal Footprint

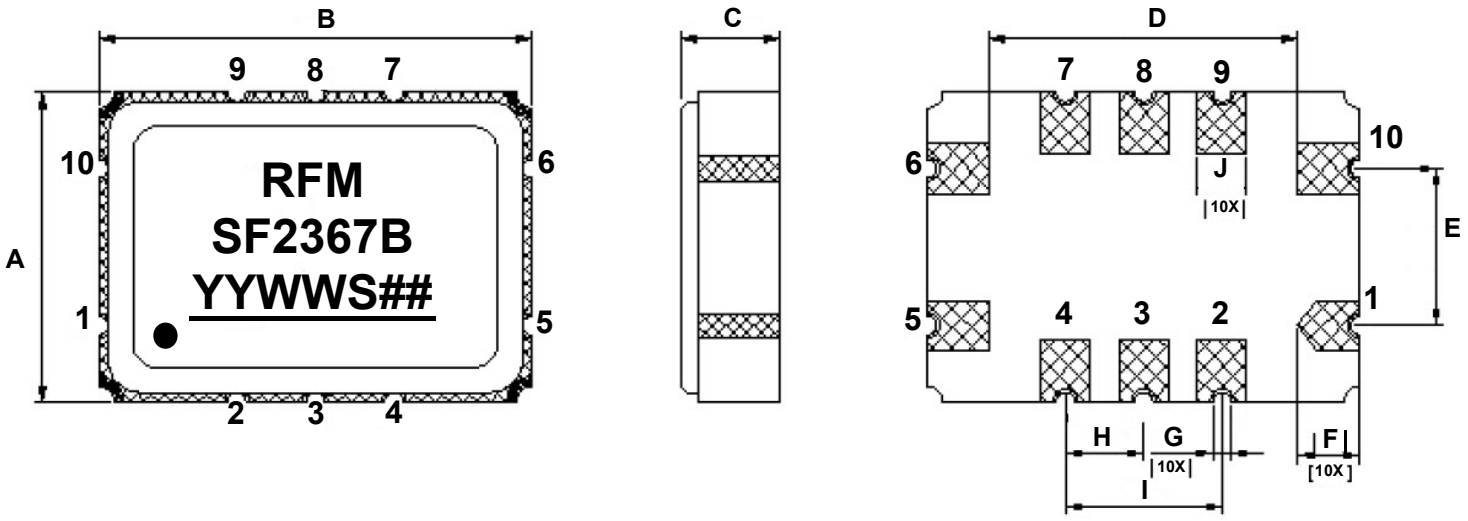


Case Dimensions

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	-

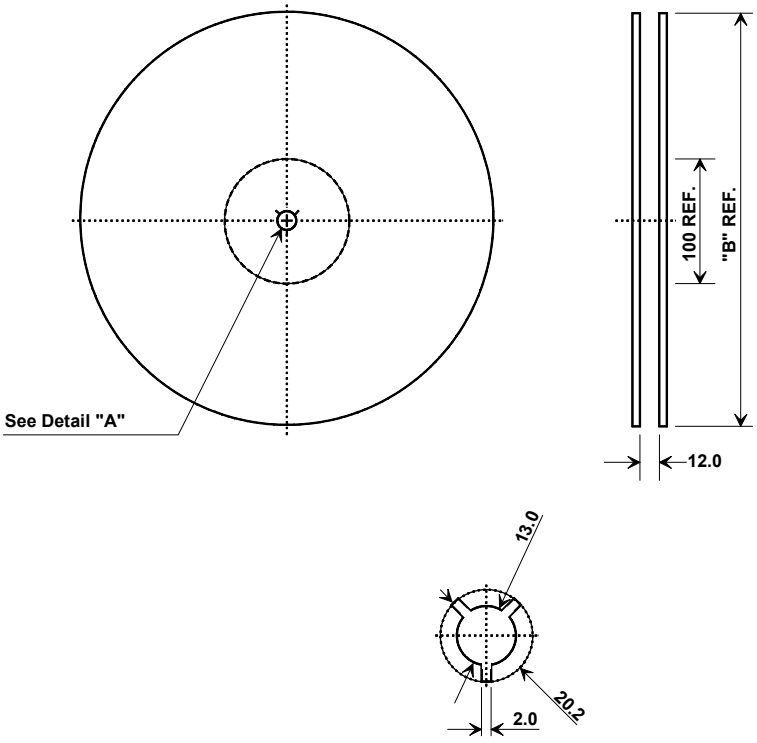
Case Materials

Materials	
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel
Lid Plating	2.0 to 3.0 µm Nickel
Body	Al_2O_3 Ceramic



Tape and Reel Specifications

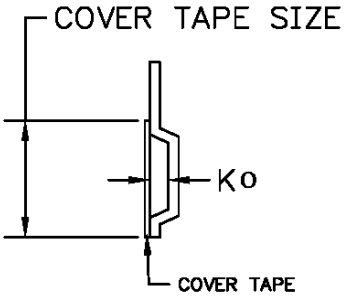
Tape and Reel Standard per ANSI/EIA-481

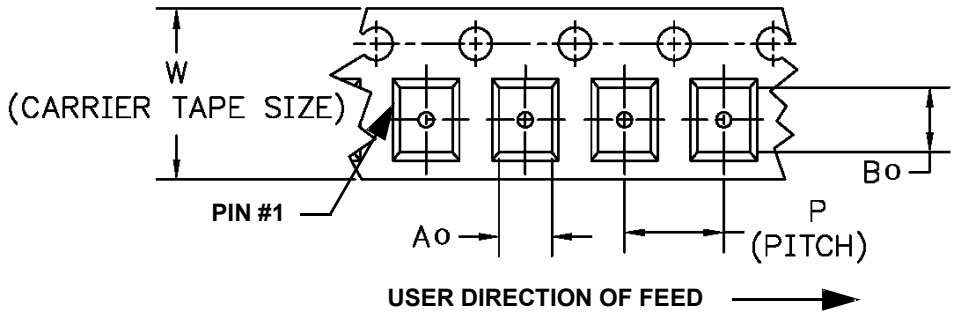


"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	2000

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

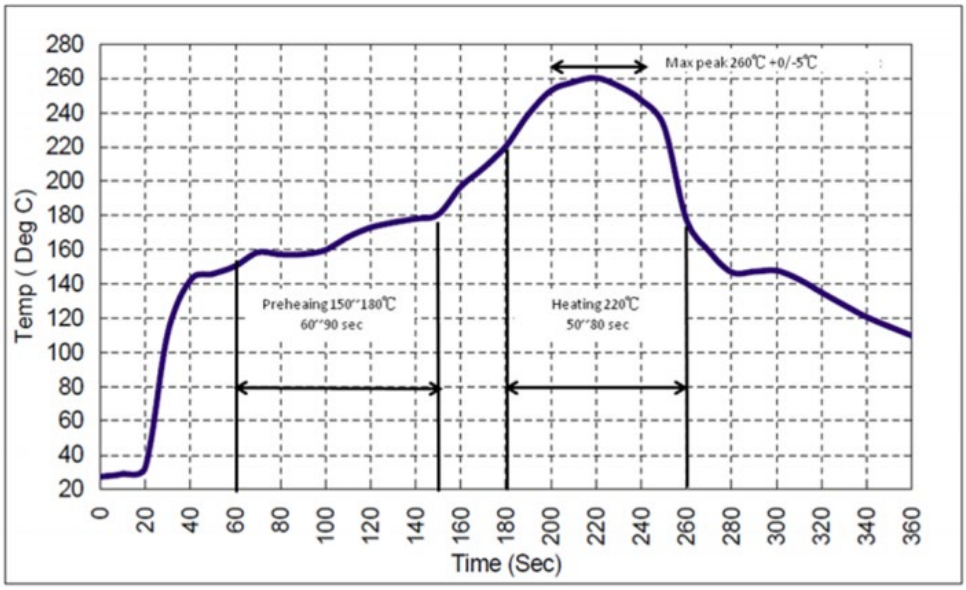




© 2014 by RFM Integrated Device, Inc.

Recommended Reflow Profile

1. Preheating shall be fixed at 150~180ºC for 60~90 seconds.
2. Ascending time to preheating temperature 150ºC shall be 30 seconds min.
3. Heating shall be fixed at 220ºC for 50~80 seconds and at 260ºC +0/-5ºC peak (10 seconds).
4. Time: 5 times maximum.



© 2014 by RFM Integrated Device, Inc.