



• Designed for Front End GPS, Beidou, and Glonass Applications

- Steep Rejection
- 2.0 x 1.6 x 1.0 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)
- AEC-Q200 Qualified

Absolute Maximum Ratings

Rating	Value	Units
Input Power Level	+20	dBm
DC Voltage	5	VDC
Operable Temperature Range	-45 to +125	°C
Specification Temperature Range	-40 to +105	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Moisture Sensitivity Level	Level 1 (MSL1)	

1542 MHz SAW Filter

SF2467H

Electrical Characteristics

Characteristic	Sym	NOTE		-40 to +105°C		UNITS
			MIN	TYPICAL	MAX	
Center Frequency	Fc			1542		MHz
Insertion Loss, 1525 to 1559 MHz	IL	3		2.5	3.3	
S11, 1525 to 1559 MHz			10			dB
Group Delay Variation, 1525 to 1559 MHz				10	20	ns
Attenuation Referenced to 0 dB:						
100 to 1480 MHz			43	48		dB
1630 to 1660 MHz			38	43		uБ
1660 to 2050 MHz			41	46		
2050 to 3500 MHz			35	40		
Temperature Coefficient of Frequency				-36		ppm/°C
Source impedance	Z _S			50		Ω
Load impedance	ZL			50		Ω

Standard Reel Quantity	Reel Size: 7 inch	2000 Pieces/Reel
	Reel size: 13 inch	10,000 Pieces/Reel
Single-ended Input / Output Impedance Match		No matching network required for operation at 50 ohms
Package Size		SM2016-4
Lid Symbolization (Y=year, W=week)		B4, <u>YW</u>

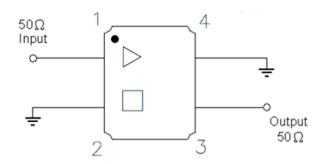


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.
NOTES:

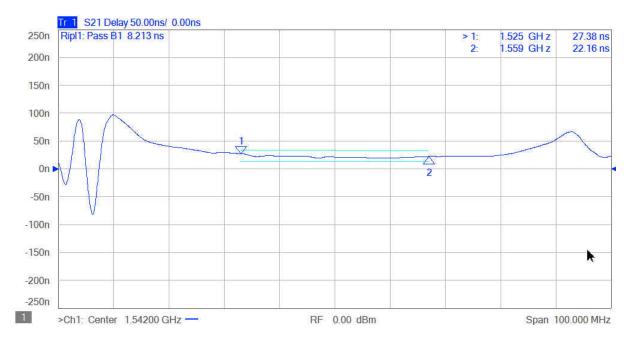
- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

Electrical Connections

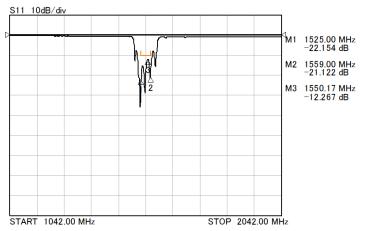
Connection	Terminals		
Input	1		
Output	3		
Ground	All others		



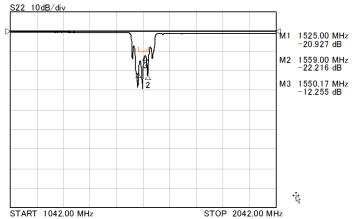
Frequency Characteristics



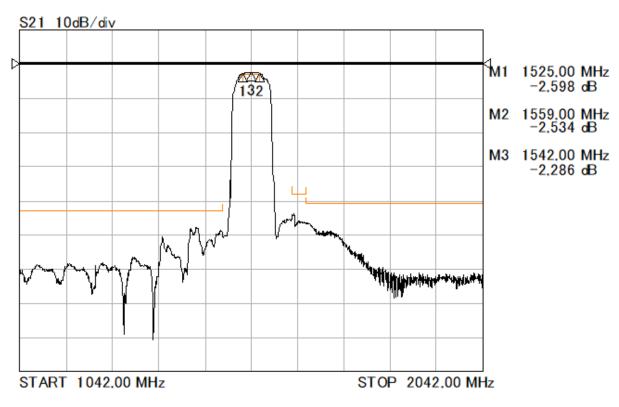
S11 Response



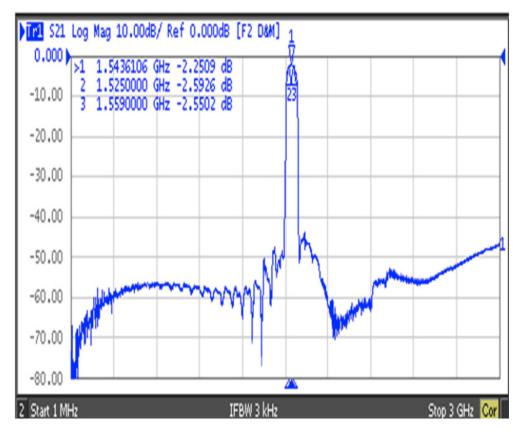
S22 Response



S21 Response: (span 1 GHz)



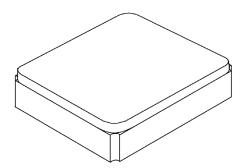
S21 Response: (span 3 GHz)



 $\ensuremath{\textcircled{O}}$ 2018 by RFM Integrated Device, Inc. SF2467H (R) 08/23/2022

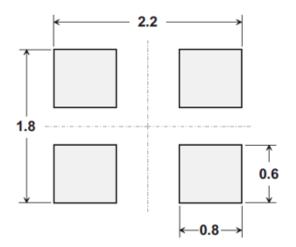
SM2016-4 Case

4-Terminal Ceramic Surface-Mount Case 2.0 X 1.6 mm Nominal Footprint



Case Dimensions mm Dimension Min Nom Max Α 1.58 1.65 1.72 В 1.98 2.05 2.12 С 0.44 0.52 0.58 D 0.60 0.425 Е F 0.625 G 0.10

PCB Pad Layout



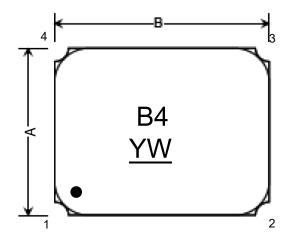
 Materials

 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

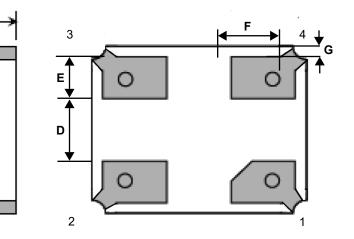
 Body
 Al₂O₃ Ceramic

Dimensions are in mm All pads have the same dimension



SIDE VIEW

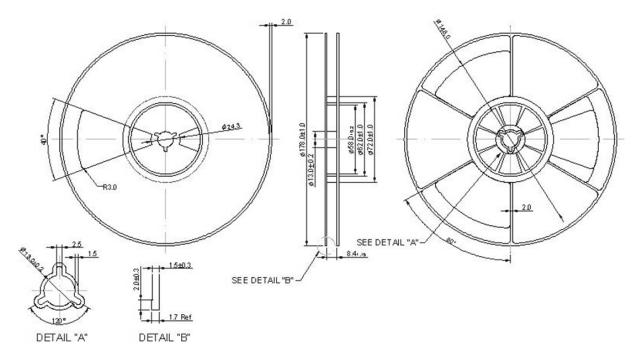
BOTTOM VIEW



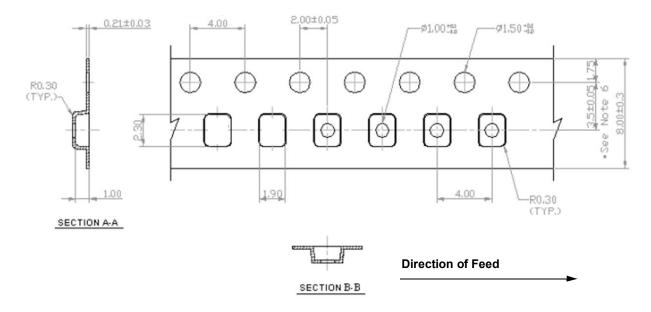
Reel Dimensions

Reel Count: 7" = 2000 13" = 10,000

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.

