



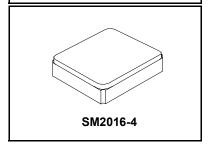
- Designed for Front End GPS, Beidou, and Glonass Applications
- · Steep Rejection
- 2.0 x 1.6 x 1.0 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)
- AEC-Q200 Qualified

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)	

SF2467H

1542 MHz SAW Filter



Electrical Characteristics

Characteristic	Sym	NOTE	-40 to +105°C			UNITS
Cital acteristic			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		ub
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	Z _L			50		Ω

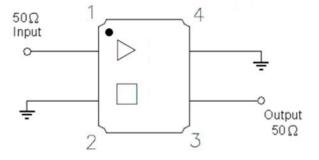
Standard Reel Quantity	Reel Size: 7 inch	2000 Pieces/Reel
	Reel size: 13 inch	10,000 Pieces/Reel
Single-ended Input / Output Impedance N	latch	No matching network required for operation at 50 ohms
Package Size		SM2016-4
Lid Symbolization (Y=year, W=week)		B4, <u>YW</u>

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

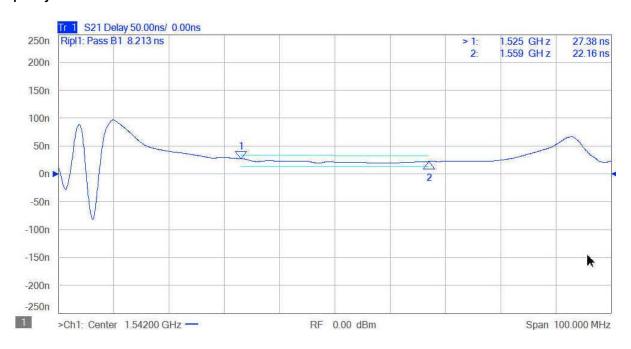
- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

Electrical Connections

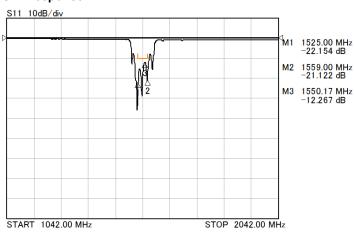
Connection	Terminals	
Input	1	
Output	3	
Ground	All others	



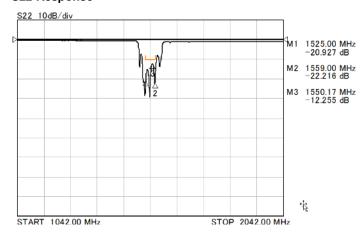
Frequency Characteristics



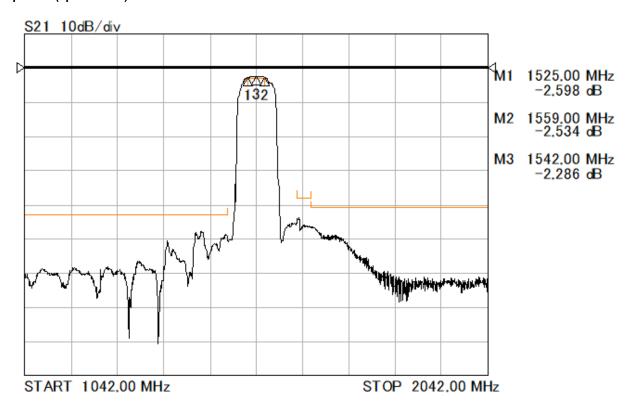
S11 Response



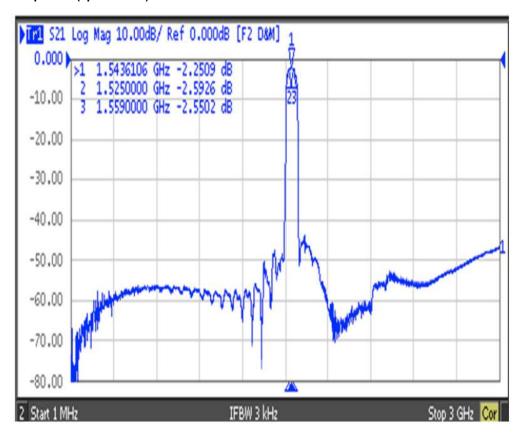
S22 Response



S21 Response: (span 1 GHz)

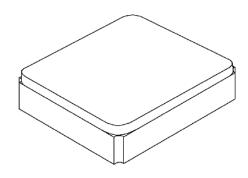


S21 Response: (span 3 GHz)

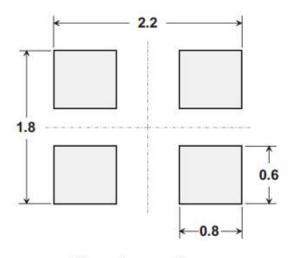


SM2016-4 Case

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



PCB Pad Layout

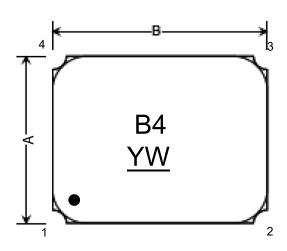


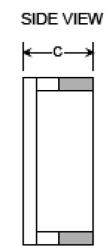
Case Dimensions

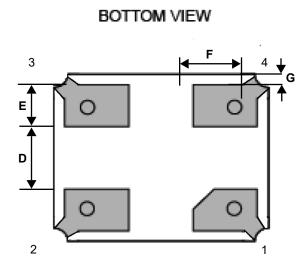
Dimension	mm			
	Min Nom		Max	
Α	1.58	1.65	1.72	
В	1.98	2.05	2.12	
С	0.44	0.52	0.58	
D		0.60		
E		0.425		
F		0.625		
G		0.10		

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 ₂ O ₃ Ceramic	

Dimensions are in mm
All pads have the same dimension



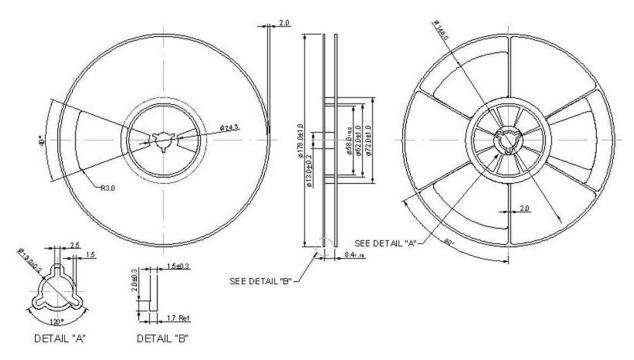




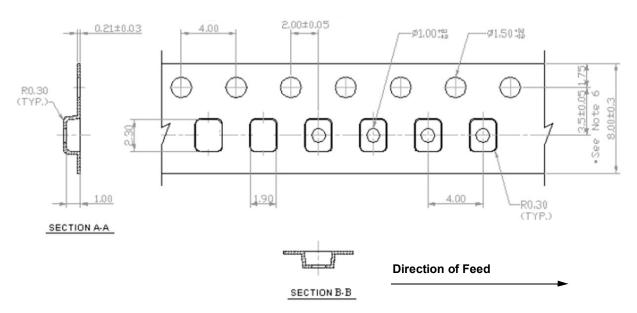
Reel Dimensions

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.

