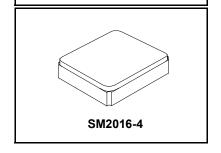
PRELIMINARY



AEC-Q200 RoHS Compliance This component is compliant with RoHS directive. This component was always RoHS compliant from the first date of manufacture.

SF2463H

1582.4 MHz **SAW Filter**



- · Designed for Front End GPS, Beidou, and Glonass Applications
- · Steep Rejection
- 2.0 x 1.6 x 1.0 mm Surface-Mount Case
- · No Matching Circuit Required

Absolute Maximum Ratings

Rating	Value	Units	
Maximum Input Power	+20	dBm	
DC Voltage	0	VDC	
Operable Temperature Range	-45 to +125	°C	
Specification Temperature Range	-40 to +85	°C	
Storage Temperature	-40 to +85	°C	
Moisture Sensitivity Level	1	MSL	
Maximum Soldering Profile (5 cycles maximum)	260 °C	260 °C for 10 s	

Electrical Characteristics

Characteristic 25°C		Svm	NOTE	MIN	TYPICAL	MAX	Units
Center Frequency		Sym fC			1582.4		MHz
Insertion Loss, 1559.05 to	1563.15 MHz				1.3	2.0	
Insertion Loss, 1573.37 to 1577.47 MHz		IL			1.0	2.0	dB
Insertion Loss, 1597.78 to	1605.66 MHz	1			1.0	2.2	
VSWR 1559.05 to 1563.15	5 MHZ				1.6	2.1	
VSWR 1573.37 to 1577.47	7 MHz				1.6	2.1	
VSWR 1597.78 to 1605.66	6 MHz				1.6	2.1	
Variation of Group Delay (1597.78 to 1605.66)		1		5	14	ns
Attenuation Referenced to	0 dB:						
50 to 824 MHz				40	43		
824 to 925 MHz				39	43		
1427 to 1453 MHz				43	48		
1710 to 1785MHz				32	42		dB
1850 to 1910 MHz				35	40		
1920 to 1980 MHz				36	41		
2400 to 2500 MHz				36	41		
2500 to 2570 MHz				36	41		
2600 to 3000 MHz				30	35		
Source impedance		Z _S			50		Ω
Load impedance		Z_{L}			50		Ω
Temperature Coefficient					-36		ppm/°C
Standard Bool Quantity	Reel Size - 7 inch				2	000 pieces/reel	
Standard Reel Quantity Reel Size - 13 inch					10	0000 pieces/reel	

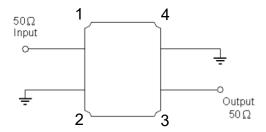
Single-ended Input / Output Impedance Match	No matching network required for operation at 50 ohms
Package Size	SM2016-4
Lid Symbolization (Y=year, W=week)	A5, YW

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

- Averaged over 2 MHz
 US and international patents may apply.
 Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

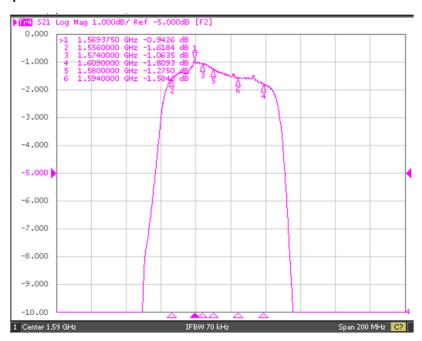
Electrical Connections

Connection	Terminals	
Input	1	
Output	3	
Ground	All others	

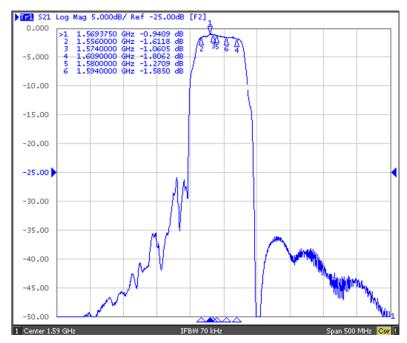


Frequency Characteristics

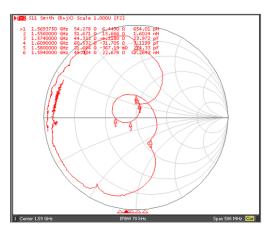
S21 Response: span 200 MHZ

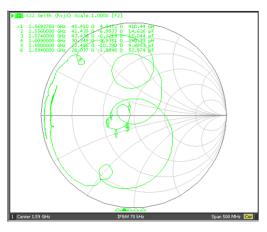


S21 Response: span 500 MHZ

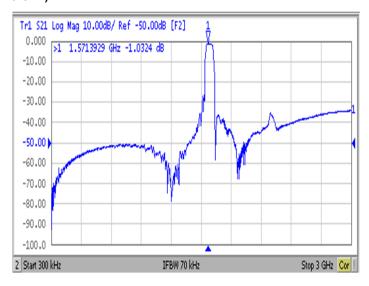


S11/S22 Response

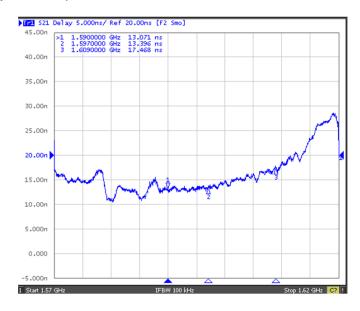




S21 Response: (span 3 GHz)

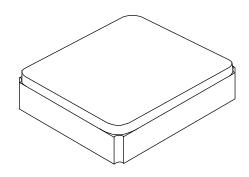


G-Delay Response: (Span 50 MHz)

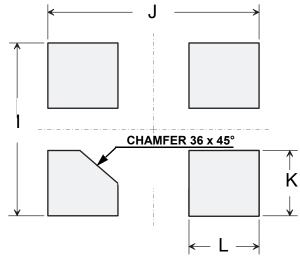


SM2016-4 Case

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



PCB PAD LAYOUT

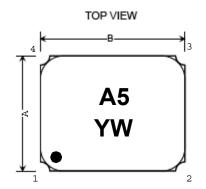


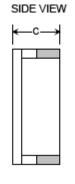
Dimensions in mm
All pads have the same dimensions

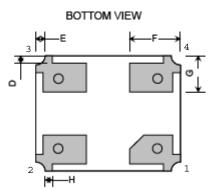
Case Dimensions

Dimension	mm		
	Min	Nom	Max
Α	1.57	1.60	1.73
В	1.97	2.00	2.13
С	0.55	0.65	0.75
D		0.10	
E		0.10	
F		0.70	
G		0.50	
Н		0.10	
I		1.80	
J		2.20	
K		0.60	
L		0.80	

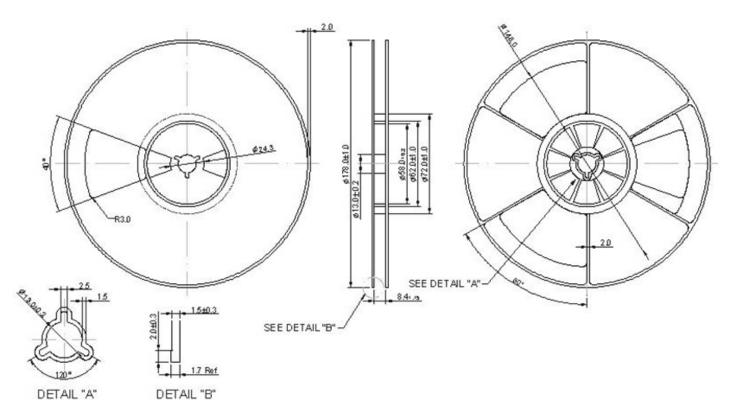
Materials		
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel	
Lid Plating	2.0 to 3.0 µm Nickel	
Body	Al ₂ O ₃ Ceramic	
Pb Free		







Reel Dimensions



Tape Dimensions

