

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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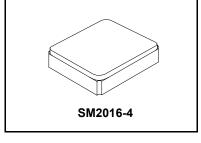




RFM products are now Murata products.

SF2316H

1583 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
- RoHS Compliant
- Meets AEC-Q200 standards



Absolute Maximum Ratings

Absolute Maximum Ratings			
Rating	Value	Units	
Maximum Input Power	+20	dBm	
DC Voltage	3	VDC	
Operating Temperature	-40 to +105	°C	
Storage Temperature Range in Tape and Reel	-40 to +85	°C	
Storage Temperature Range without Tape and Reel	-40 to +105	°C	
Maximum Soldering Profile (5 cycles maximum)	260 °C	260 °C for 10 s	

Electrical Characteristics

Characteristic 25°C		Sym	Typical	-40 to +85°C	-40 to +105°C	Units
			-	MAX	MAX	
Center Frequency		fC	1583	-	-	MHz
Insertion Loss, 1559.1 to 1	1563.1 MHz		1.8	2.1	2.3	
Insertion Loss, 1573.42 to	1577.42 MHz	IL	1.4	1.6	1.8	1
Insertion Loss, 1597.55 to	1605.89 MHz		1.7	2.1	2.5	
Amplitude Ripple, 1559.1	to 1563.1 MHz		0.5	0.8	1.0	dB
Amplitude Ripple, 1571.42	2 to 1577.42 MHz		0.2	0.5	0.7	7
Amplitude Ripple, 1597.55	to 1605.89 MHZ		0.3	0.6	1.0	7
VSWR 1559.1 to 1563.1 N	ИНZ		1.7	2.0	2.2	
VSWR 1573.42 to 1577.42	2 MHz		1.8	2.0	2.2	
VSWR 1597.55 to 1605.89	9 MHz		2.0	2.2	2.4	
Attenuation Referenced to	0 dB:	•		MIN	MIN	•
10 to 824 MHz			50	43	43	
824 to 925 MHz			50	45	43	1
1427 to 1463 MHz			32	25	25	dB
1710 to 1785 MHz			40	34	34	1
1850 to 1980 MHz			40	35	35	1
2400 to 2570 MHz			30	25	25	1
2570 to 3000 MHz			27	23	23	1
Source impedance		Z _S	50			Ω
Load impedance		Z_{L}	50			Ω
Standard Bool Quantity	Reel Size - 7 inch		2000 pieces/reel		•	
Standard Reel Quantity Reel Size - 13 inc				10000 p	ieces/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)	5C, YW

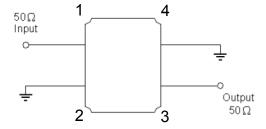
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

US and international patents may apply.

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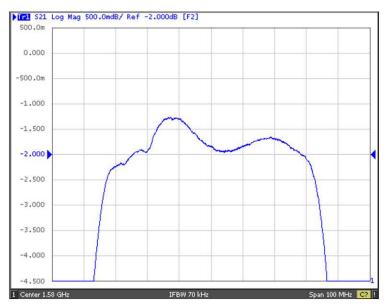
Electrical Connections

Connection	Terminals	
Input	1	
Output	3	
Ground	All others	

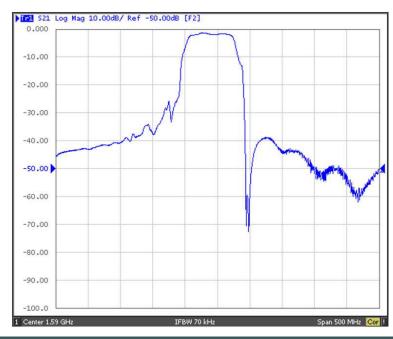


Frequency Characteristics

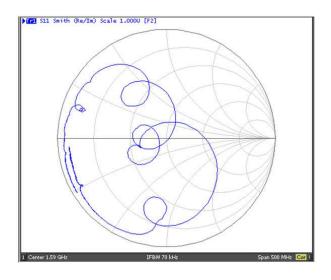
S21 Response: span 100 MHZ

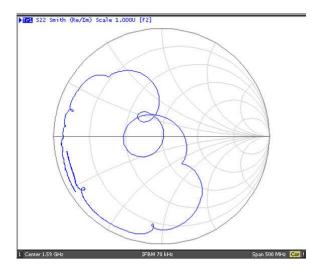


S21 Response: span 500 MHZ

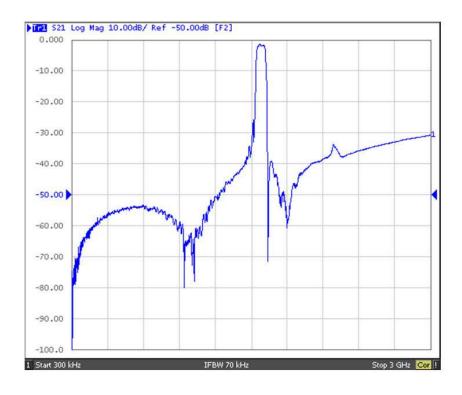


S11/S22 Response



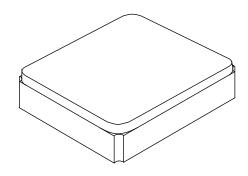


S21 Response

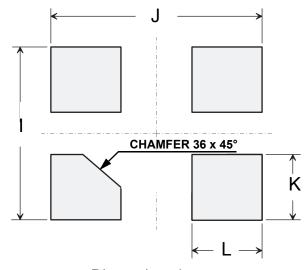


SM2016-4 Case

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		

