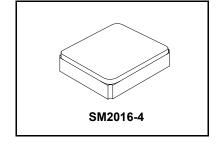


SF2316H-1

1588.655 MHz **SAW Filter**



- Designed for Front End GPS, 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	Notes	Min.	Тур	Max.	Units	
Center Frequency		fC			1588.656	;	MHz	
Insertion Loss, 1573.42 to 1577	7.42 MHz				1.25	2.2		
Insertion Loss, 1571.42 to 1605	605.89 MHz IL 1.65		2.7	٩D				
Amplitude Ripple, 1573.42 to 19	577.42 MHz				0.25	1.2 dB		
Amplitude Ripple, 1571.42 to 10	605.89 MHZ				0.46	1.5	7	
I/O VSWR 1571.42 to 1605.89	MHZ				1.85	2		
Attenuation Referenced to 0dB:								
0 to 915 MHz				30	36			
915 to 1452 MHz				28	36			
1452 to 1525 MHz				32	42		dB	
1548.5 MHz				10	18			
1710 to 1850 MHz				28	40			
1850 to 6000 MHz				20	24			
Standard Reel Quantity	Reel Size - 7 inch	2000 p	ieces/reel	•	•	•		
Reel Size - 13 inch		10000	pieces/ree	el				

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)	5K, YW



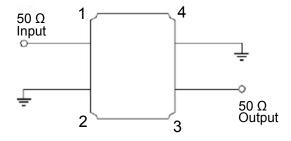
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

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

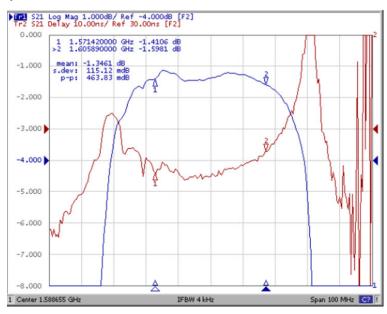
Electrical Connections

Connection	Terminals	
Input	1	
Output	3	
Ground	All others	

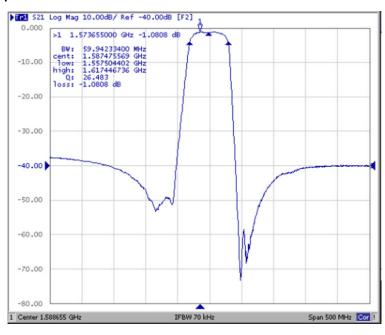


Frequency Characteristics

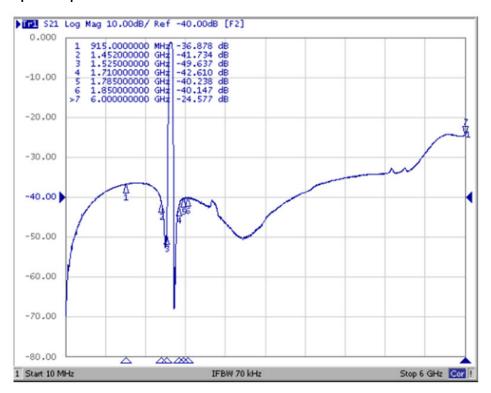
S21 Response: span 100 MHZ



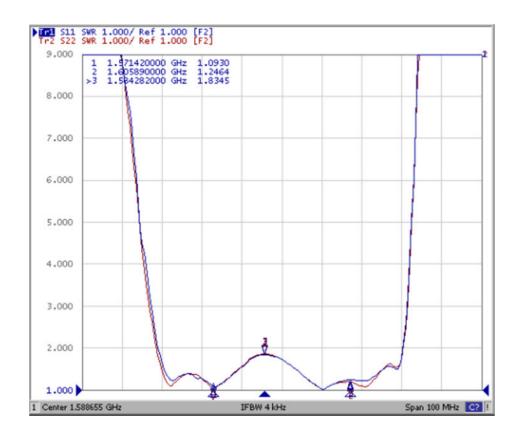
S21 Response: span 300 MHZ



S21 Response: span 6 GHz

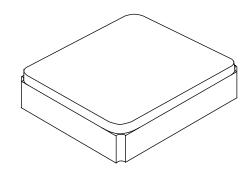


S11 & S22 VSWR - span 100 MHz

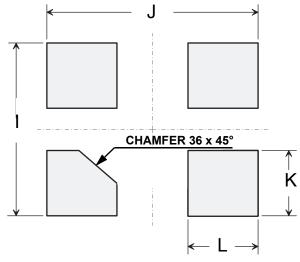


SM2016-4 Case

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		

