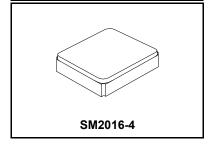


SF1186H-2

1575.42 MHz SAW Filter



- RF Filter Designed for Front End GPS Applications
- · Low Insertion Loss
- Improved Rejection
- 2.0 x 1.6 mm Surface-Mount Case
- Complies with Directive 2002/95/EC (RoHS)
- AEC-Q200 Compliant

Absolute Maximum Ratings

- 100 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Rating	Value	Units		
Maximum Incident Power in Passband	+10	dBm		
Maximum DC Voltage Between any Two Terminals	3	VDC		
Operating Temperature Range	-40 to +85	°C		
Storage Temperature Range	-55 to +95	°C		
Maximum Soldering Profile	265°C for 10 s			

Electrical Characteristics

Characteristic		Sym	Notes	Min	Тур	Max	Units	
Center Frequency		f _C			1575.42		MHz	
Maximum Insertion Loss	1574.42 to 1576.42 MHz	IL _{MAX}			1.2	1.6	dB	
Amplitude Ripple	1574.42 to 1576.42 MHz				0.1	0.5	uB	
VSWR	1574.42 to 1576.42 MHz				1.2	1.9		
Attenuation (Reference to 0 dB)	100 to 960 MHz			26	29			
	960 to 1460 MHz			27	30			
	1460 to 1513 MHz			22	26			
	1648 to 1710 MHz			22	30		dB	
	1710 to 1990 MHz			25	30		uБ	
	1990 to 2300 MHz			25	33			
	2300 to 4000 MHz			21	24			
	4000 to 6000 MHz			13	16			
Source impedance		Z _S			50		Ω	
Load impedance		Z _L			50		Ω	

Single-ended Input / Output Impedance Match	No matching network required for operation at 50 ohms
Case Style	SM2016-4
Lid Symbolization (Y=year, W=week)	2Y, YW

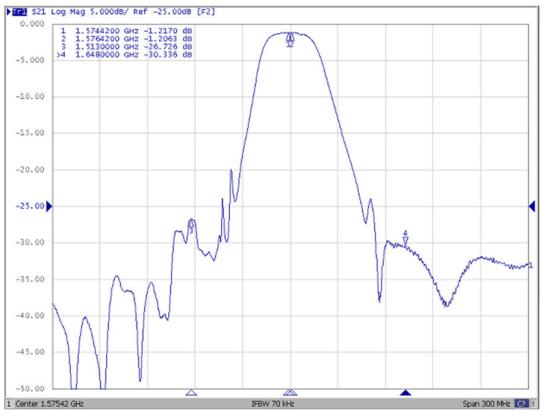
T

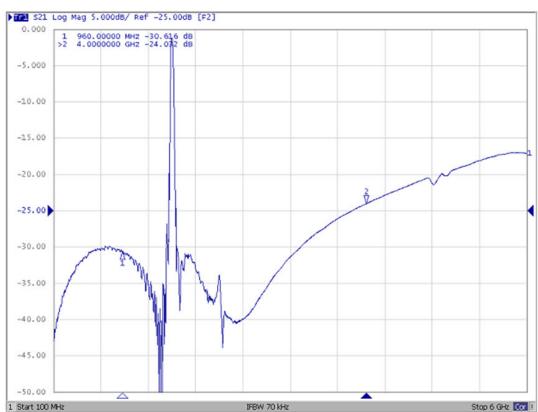
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

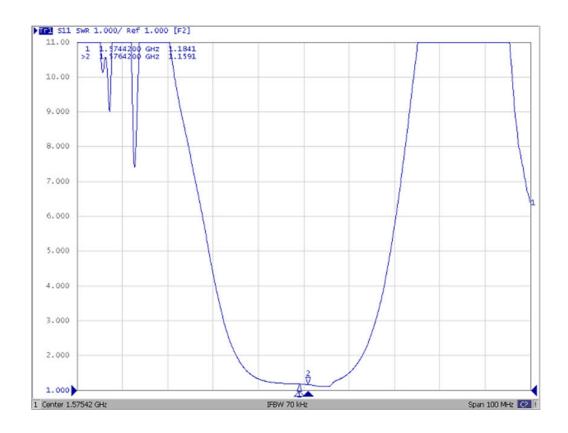
- US and international patents may apply.
- 2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

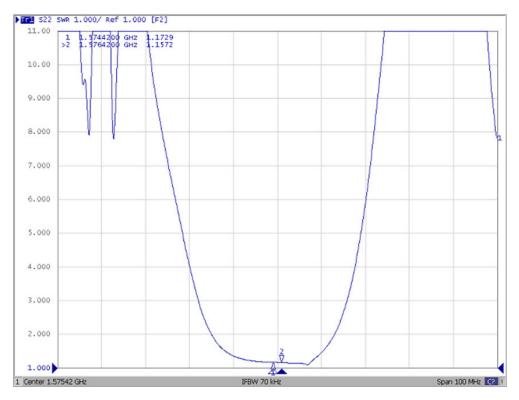
Frequency Characteristics





S11





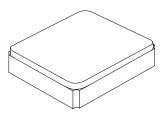
S22

SM2016-4 Case

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

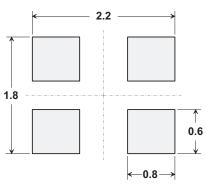
Electrical Connections

Connection	Terminals			
Input	1			
Output	3			
Ground	2, 4			

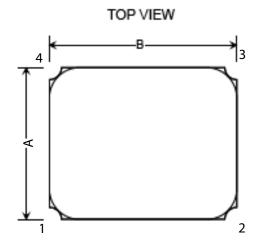


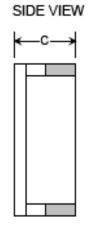
Dimensions	Millimeters			Inches			
D	Min	Nom	Max	Min	Nom	Max	
Α		1.60			0.062		
В		2.0			0.078		
С		0.90			0.035		
D		0.10			0.003		
E		0.10			0.003		
F		0.70			0.027		
G		0.50			0.019		
Н		0.10			0.003		

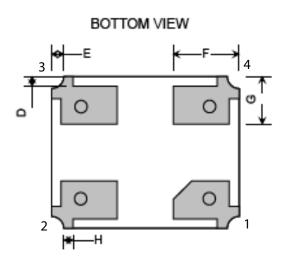
PCB PAD LAYOUT



Dimensions in mm All pads have the same dimensions







F. PACKING: 1. REEL DIMENSION (Reel Count: 7"=2000 typ.; 13"=10000 typ.)

