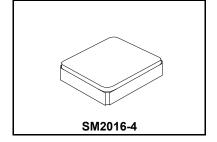




SF1186H-3

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

Rating	Value	Units	
Input Power Level	+10	dBm	
Maximum DC Voltage on any Non-grounded Terminal	3	VDC	
Filter Operating Temperature Range	-40 to +105	°C	
Filter Storage Temperature Range	-55 to +105	°C	
Storage Temperature Range in Tape & Reel	-40 to +85	°C	
Maximum Soldering Profile	265°C	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	1.8	dB
Amplitude Ripple, 1574.42 to 1576.42 MHz				0.1	0.5	dB
VSWR, 1574.42 to 1576.42 MHz				1.2	1.9	
Attenuation:						
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		
1990 to 2300 MHz			25	33		
2300 to 4000 MHz			21	24		
4000 to 6000 MHz			13	16		
Temperature Coefficient of Frequency				-36		ppm/°C
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, Device, Date Code	3A		

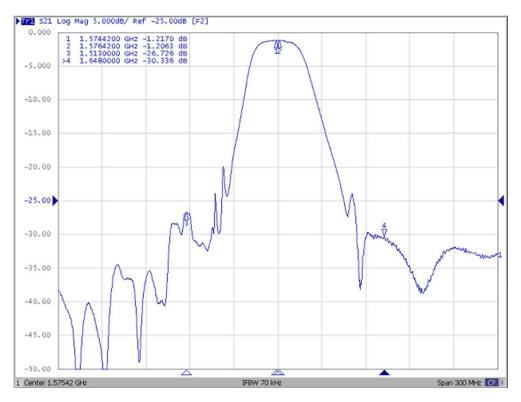


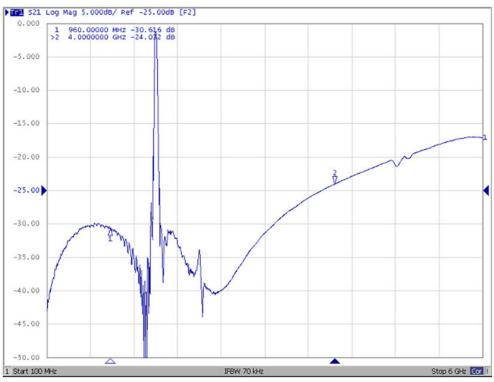
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

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

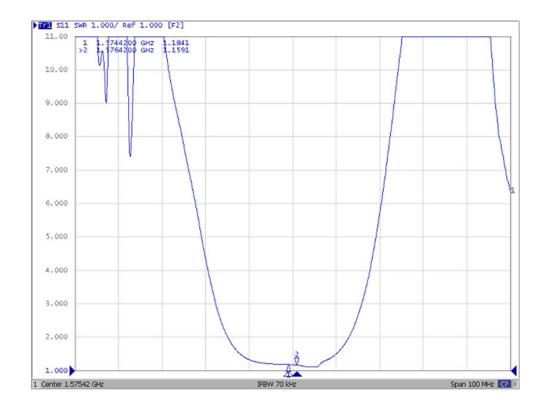
Frequency Characteristics



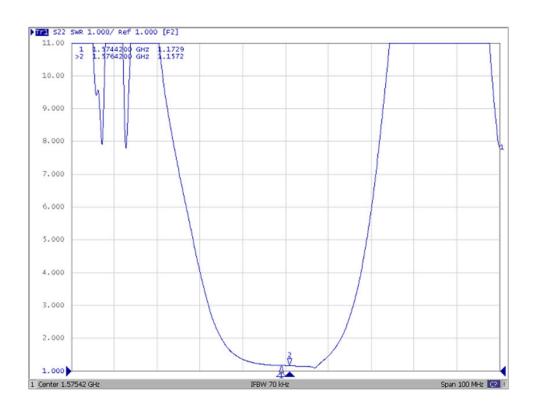


Reflection Functions

S11



S22

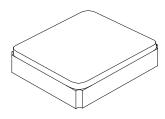


SM2016-4 Case

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

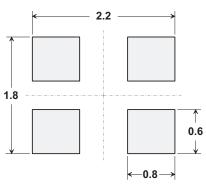
Electrical Connections

Connection	Terminals		
Input	1		
Output	3		
Ground	2, 4		

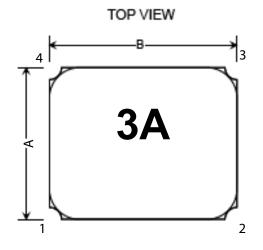


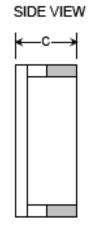
Dimensions	Millimeters		Inches			
Dimonsions	Min	Nom	Max	Min	Nom	Max
Α		1.60				
В		2.00				
С		0.90				
D		0.10				
Е		0.10				
F		0.70				
G		0.50				
Н		0.10				

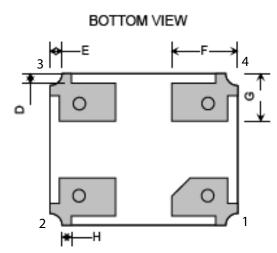
PCB PAD LAYOUT



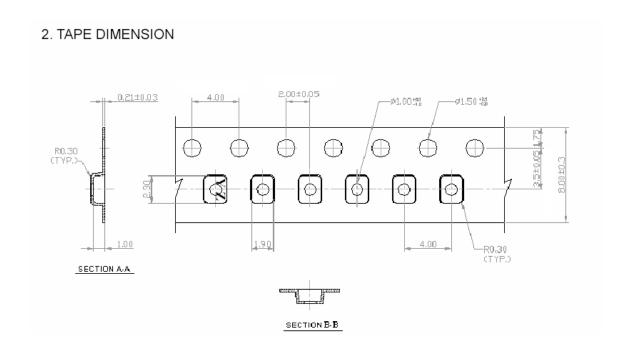
Dimensions in mm All pads have the same dimensions







F. PACKING: 1. REEL DIMENSION Reel Count: 7" = 2000 typ; 13" = 10000 typ. SEE DETAIL 'B" SEE DETAIL 'B"



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