


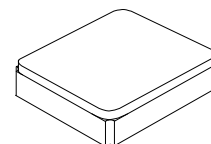
Preliminary



SF1186H-1

**1575.42 MHz
SAW Filter**

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



SM2016-4

Absolute Maximum Ratings


Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	3	VDC
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range	-55 to +95	°C
Max Soldering Profile	265°C for 10 s	

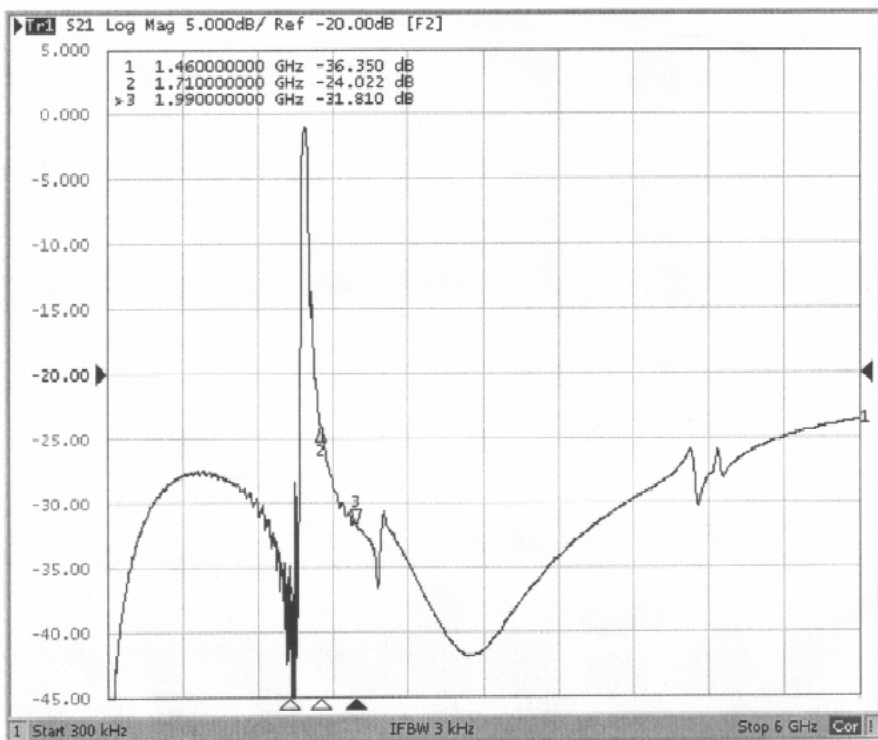
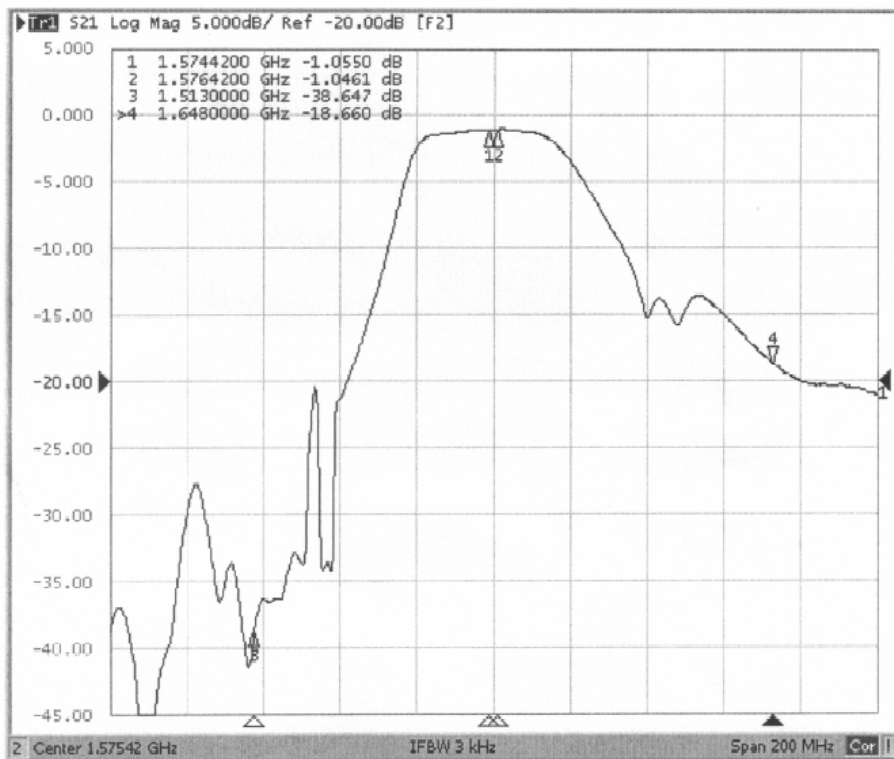
Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	f_c			1575.42		MHz
Max. Insertion Loss (1574.42 - 1576.42 MHz)	IL			1.1	1.6	dB
Amplitude Ripple (1574.42 - 1576.42 MHz)				0.1	0.5	
Attenuation (Reference level from 0 dB)	100 ~ 960 MHz		25	27.5		dB
	960 ~ 1460 MHz		25	28		
	1460 ~ 1513 MHz		25	28		
	1648 ~ 1710 MHz		15	19		
	1710 ~ 1990 MHz		20	24		
	1990 ~ 2300 MHz		25	31		
	2300 ~ 4000 MHz		25	30		
4000 ~ 6000 MHz		20	24			
VSWR (1574.42 - 1576.42 MHz)				1.3	1.9	
Terminating Source impedance	Z_S			50		Ω
Terminating Load impedance	Z_L			50		Ω

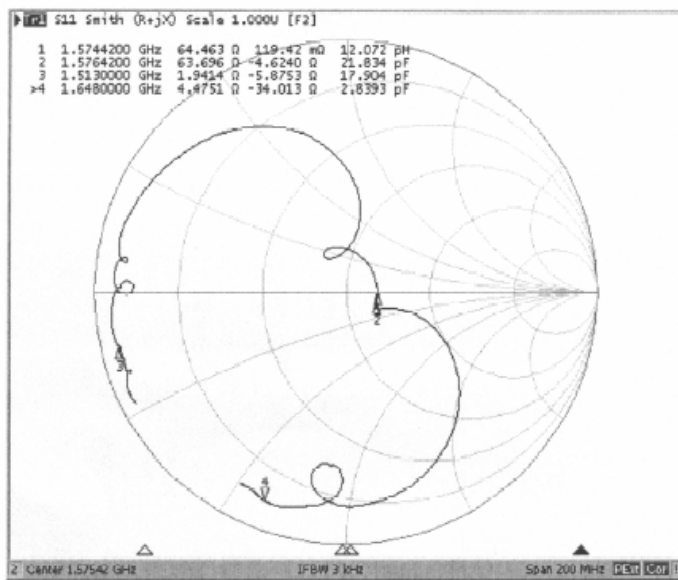
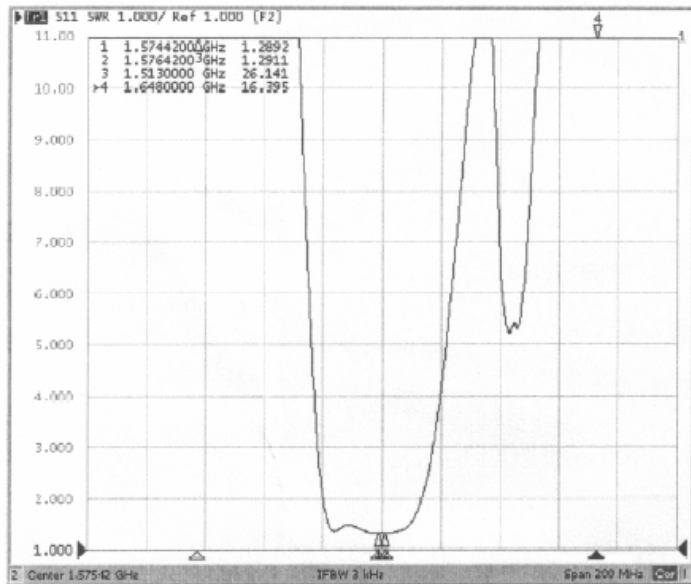
Single Ended Input / Output, Impedance match	No matching network required for operation at 50 ohms
Case Style	SM2016-4
Lid Symbolization (Y=year, W=week)	TBD, YW

Notes:

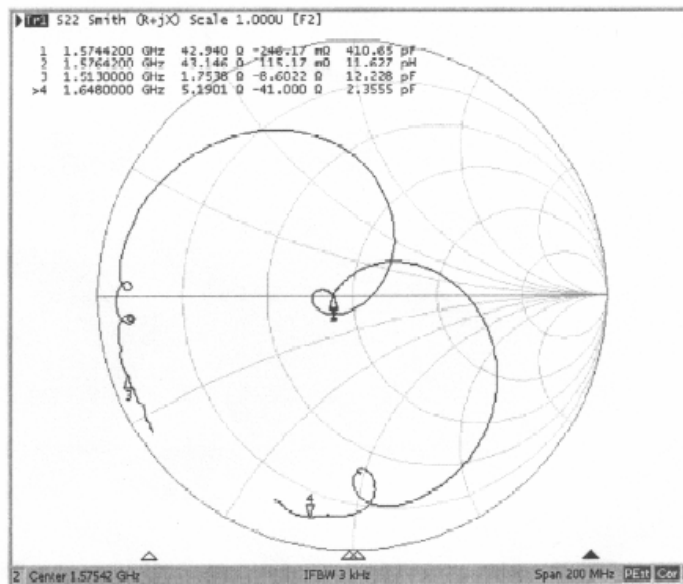
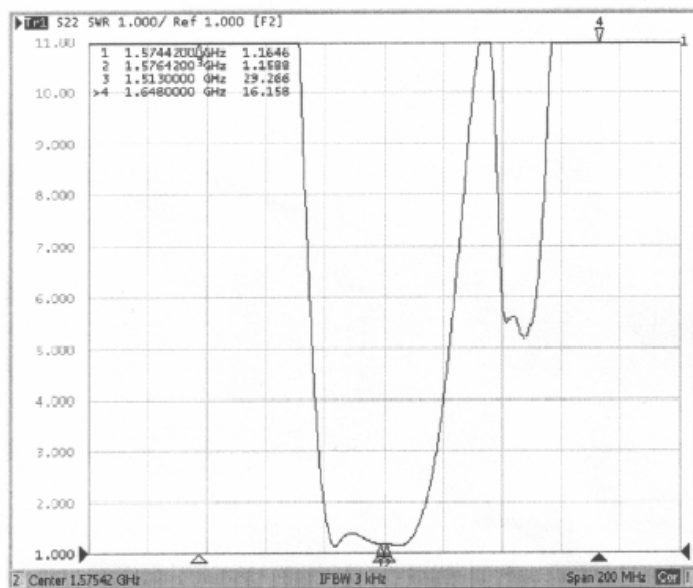
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4. Electrostatic Sensitive Device. Observe precautions for handling 



S11

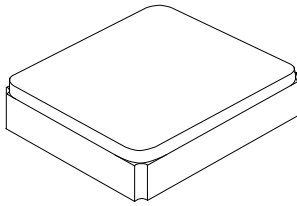


S22



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		
	Min	Nom	Max	Min	Nom	Max
A		1.60				
B		2.0				
C		0.90				
D		0.10				
E		0.10				
F		0.70				
G		0.50				
H		0.10				

