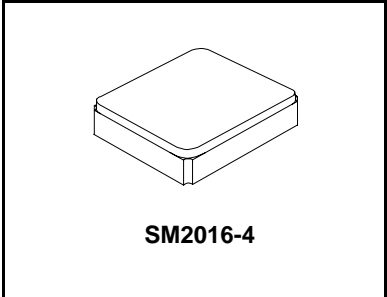




SF1186H-2

**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)



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			1.15	1.6	dB
Amplitude Ripple (1574.42 - 1576.42 MHz)				0.1	0.5	
VSWR (1574.42 - 1576.42 MHz)				1.2	1.9	
Attenuation	100~960 MHz		31	33		dB
	960~1460 MHz		31	33		
	1460~1513 MHz		22	26		
	1648~1710 MHz		22	28		
	1710~1990 MHz		25	32		
	1990~2300 MHz		25	30		
	2300~4000 MHz		29	31		
4000~6000 MHz		20	24			
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

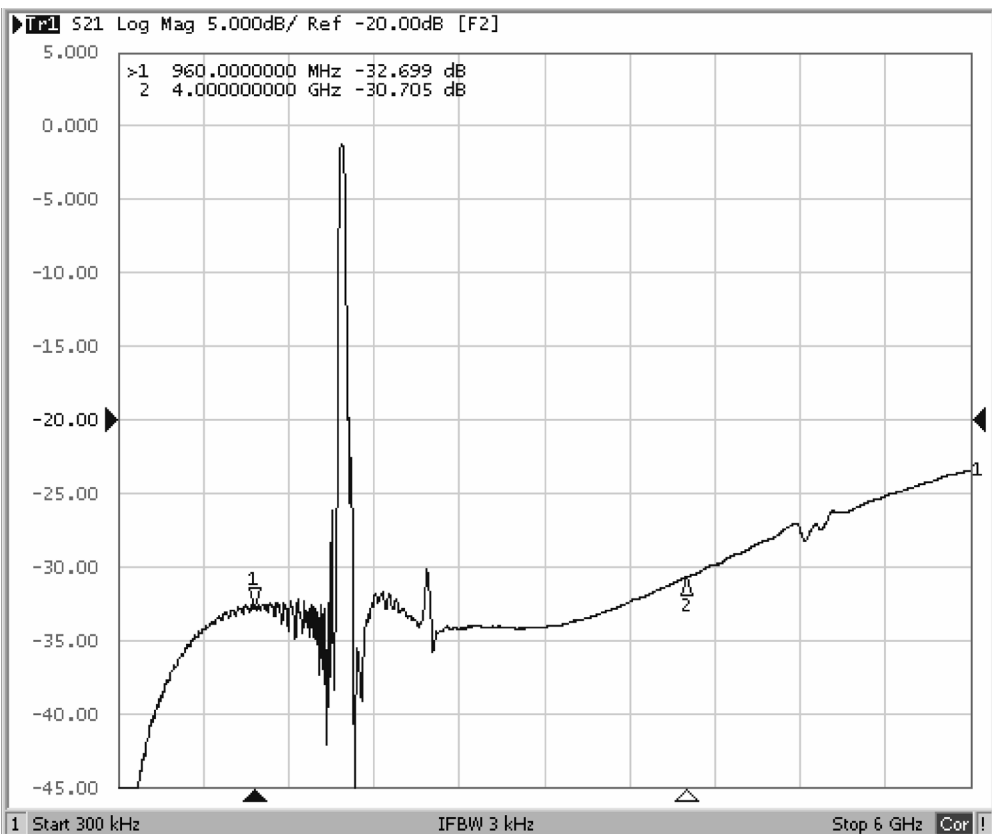
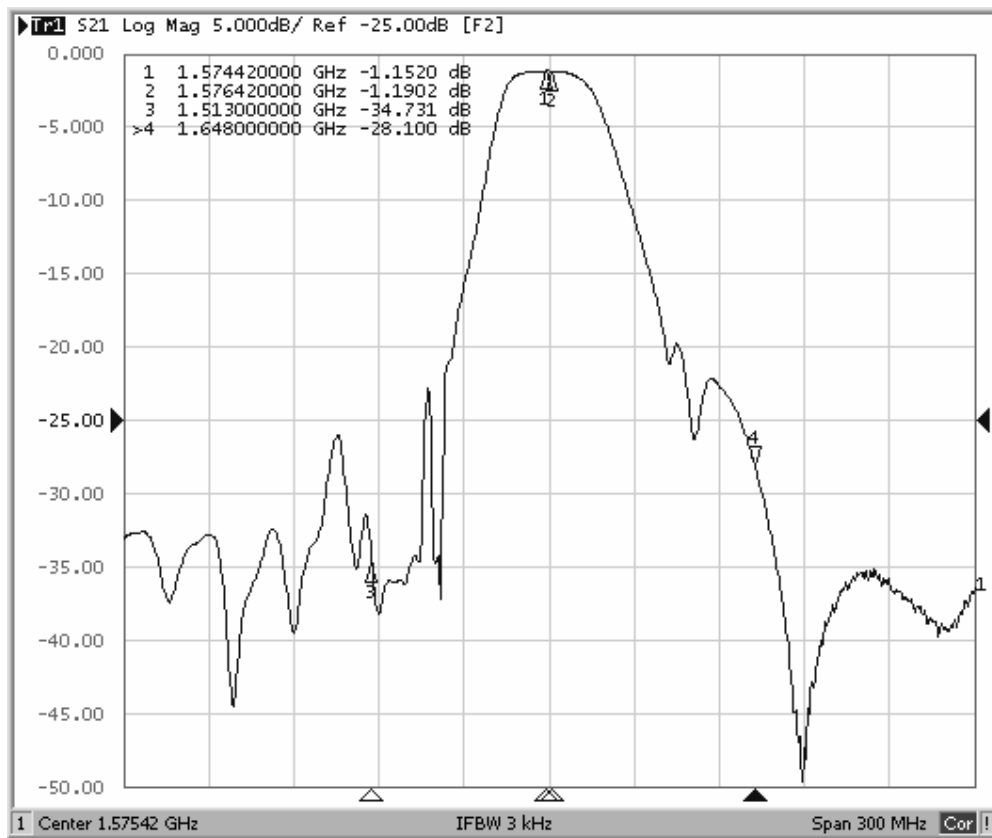


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

Notes:

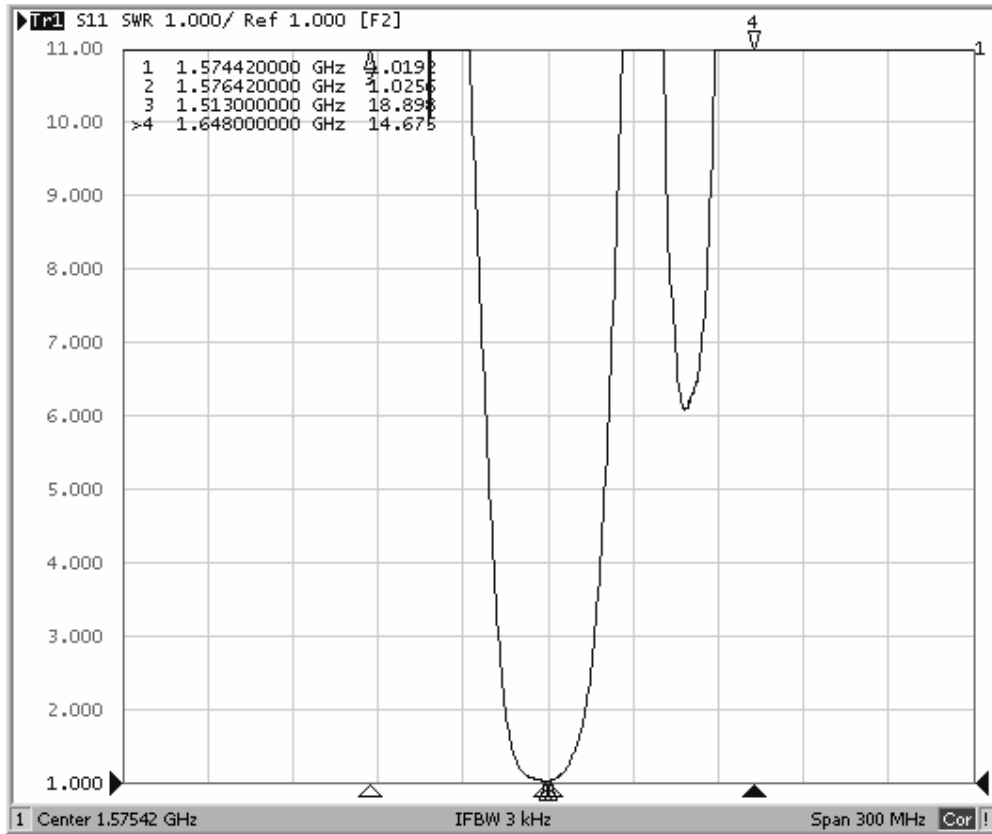
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Frequency Characteristics

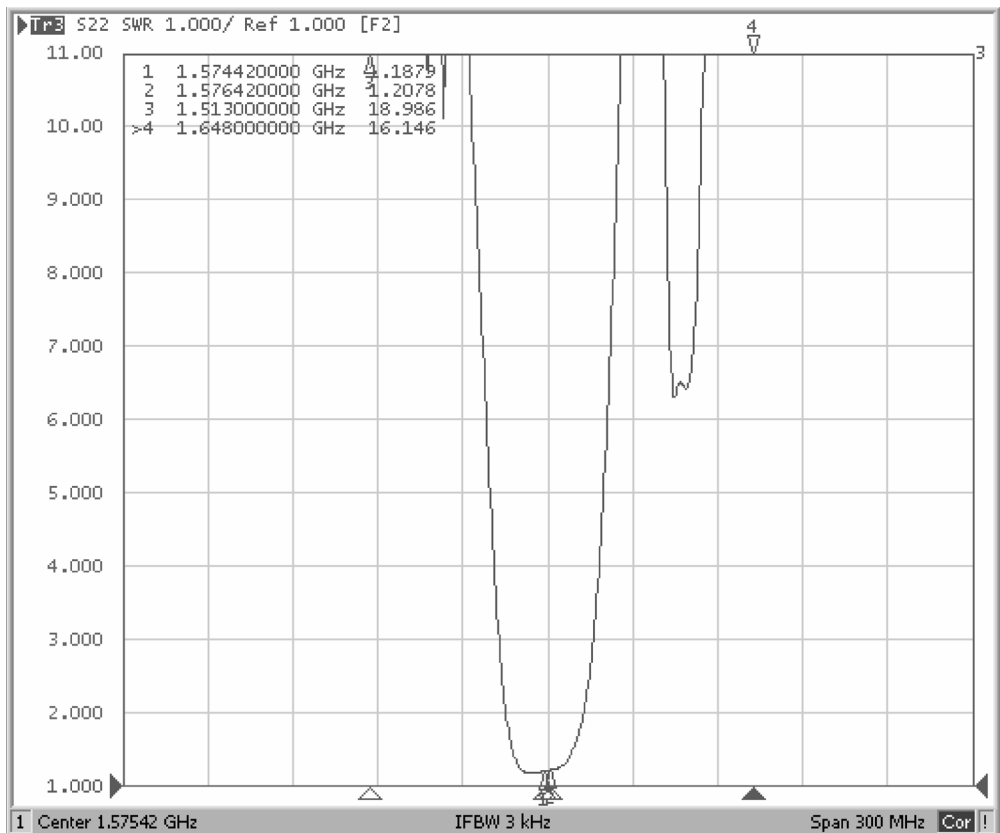


Reflection Functions

S11



S22



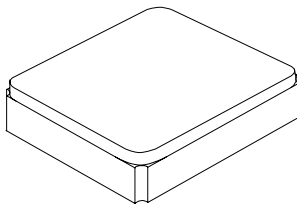
SM2016-4 Case

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

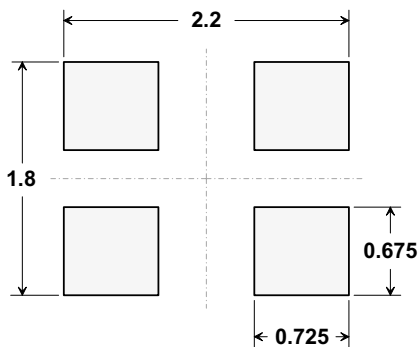
Electrical Connections

Connection	Terminals
Input	1
Output	3
Ground	2, 4

Dimensions	Millimeters			Inches		
	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				

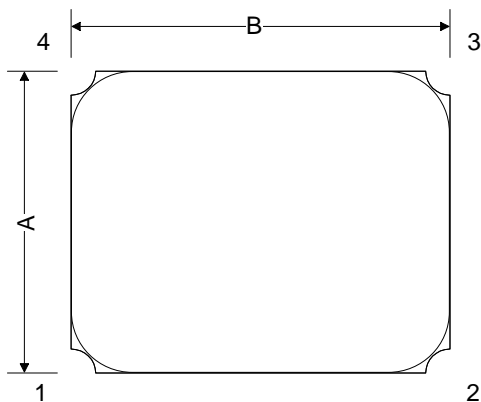


PCB PAD LAYOUT

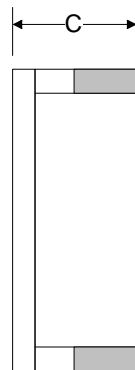


Dimensions in mm
All pads have the same dimensions

TOP VIEW



SIDE VIEW



BOTTOM VIEW

