imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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• 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	
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		

SF1186H-2

1575.42 MHz SAW Filter



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	uБ	
VSWR	1574.42 to 1576	.42 MHz				1.2	1.9		
Attenuation (Reference to 0 dB)	100 to 9	960 MHz			26	29			
	960 to 14	460 MHz			27	30		dB	
	1460 to 15	513 MHz			22	26			
	1648 to 17	710 MHz			22	30			
	1710 to 1990 MHz				25	30		uв	
	1990 to 2300 MHz				25	33			
	2300 to 4000 MHz				21	24			
4000 to		000 MHz			13	16			
Source impedance			Z _S			50		Ω	
Load impedance			ZL			50		Ω	
Single-ended Input / Output Impedance Match			No mate	ching netwo	k required	for operation a	at 50 ohms		
Case Style		SM2016-4							
Lid Symbolization (Y=year, W=week)		2Y, YW							

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

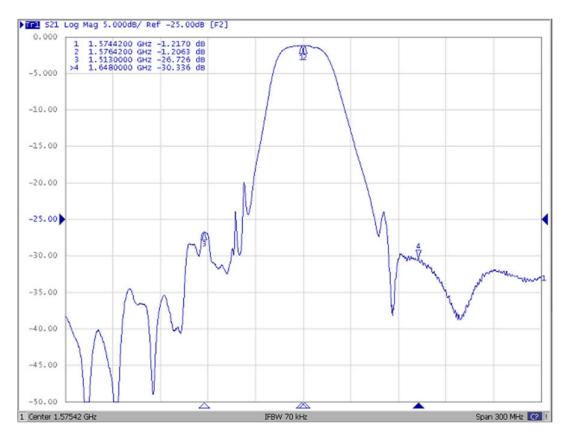
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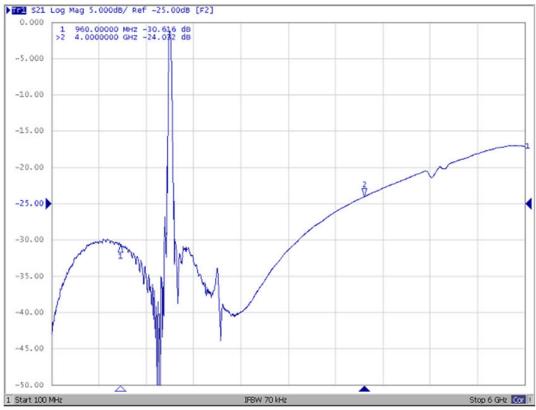
 $\mathbf{\nabla}$

1. 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

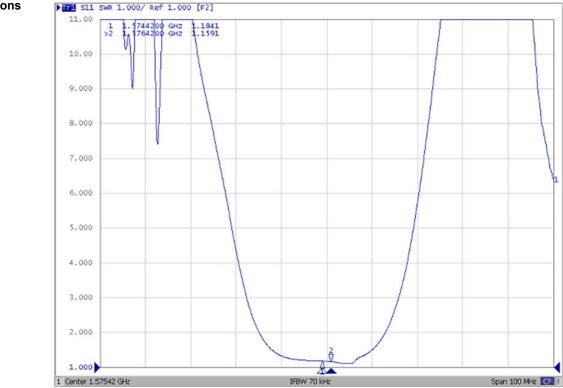


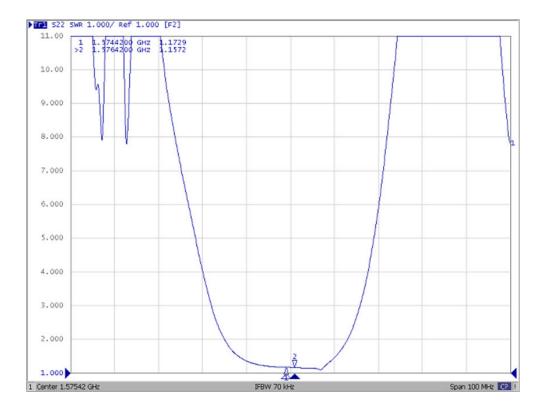


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S22





Reflection Functions

S11

SM2016-4 Case

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

Dimensions

A B

С

D

Е

F

G

Н

Electrical Connections

Connection	Terminals			
Input	1			
Output	3			
Ground	2, 4			

Inches

Nom

0.062

0.078

0.035

0.003

0.003 0.027

0.019

0.003

Max

Millimeters

Nom

1.60

2.0

0.90

0.10

0.10

0.70

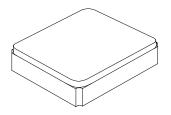
0.50

0.10

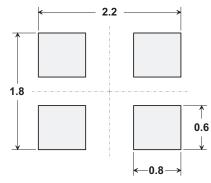
Max

Min

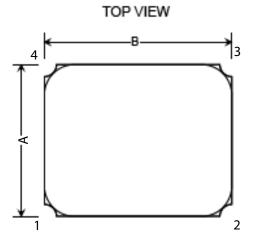
Min



PCB PAD LAYOUT

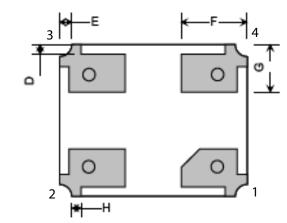


Dimensions in mm All pads have the same dimensions





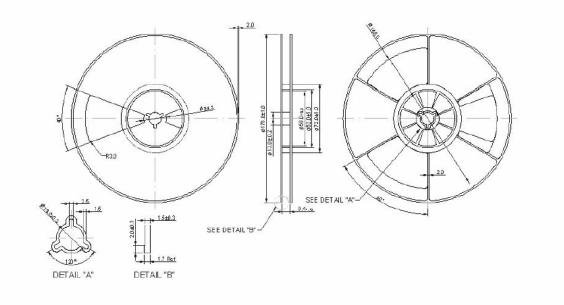




F. <u>PACKING:</u>

1. REEL DIMENSION

(Reel Count : 7"=2000 typ. ; 13"=10000 typ.)



2. TAPE DIMENSION

