

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.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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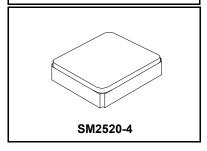




RFM products are now Murata products.

SF1186G

1575.42 MHz **SAW Filter**



Designed for Front End GPS Applications

- · Steep Rejection
- 2.5 x 2.0 x 1.0 mm Surface-Mount Case
- No Matching Circuit Required
- AEC Q200 Qualified

Absolute Maximum Ratings

Rating	Value	Units	
Maximum Input Power, DC to 3 GHz	+10	dBm	
Maximum Input Power, 0.8 to 1 GHz and 1.7 to 1.9 GHz	+20	dBm	
Maximum DC Voltage On any Non-ground Terminal	5	VDC	
Storage Temperature Range in Tape and Reel	-40 to +85	°C	
Maximum Soldering Profile (5 cycles maximum)	265 °C	265 °C for 10 s	

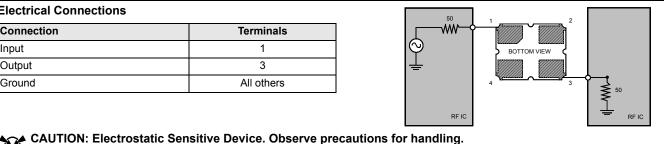
Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Nominal Operating Frequency	f _C		1575.42		MHz	
Passband Insertion Loss, f _C ±1.0 MHz	IL			1.5	2.2	dB
Amplitude Ripple, f _C ±1.0 MHz				0.1	1.0	dB _{P-P}
Attenuation Referenced to 0 dB:						
DC to 1400 MHz			35.0	37.0		
1400 to 1475 MHz			30.0	34.0		
1475 to 1525 MHz			25.0	37.0		dB
1625 to 1640 MHz			30.0	45.0		
1640 to 2000 MHz			32.0	34.0		
2000 to 3000 MHz			20.0	28.0		
S ₁₁ VSWR across f _C ±1.0 MHz				1.2	2.0	
S ₂₂ VSWR across f _C ±1.0 MHz				1.2	2.0	
Source impedance	Z _S			50		Ω
Load impedance	Z _L			50		Ω
Operating Temperature	T _A		-40		+85	°C

Single-ended Input / Output Impedance Match	No matching network required for operation at 50 ohms				
Case Style	SM2520-4				
Lid Symbolization (2A=SF1186G Y=year, W=week)	2A, YW				
Standard Reel Quality, 7 inch Reel Size	500 Pieces Reel				
Standard Reel Quantity, 13 inch Reel Size	3000 Pieces/Reel				

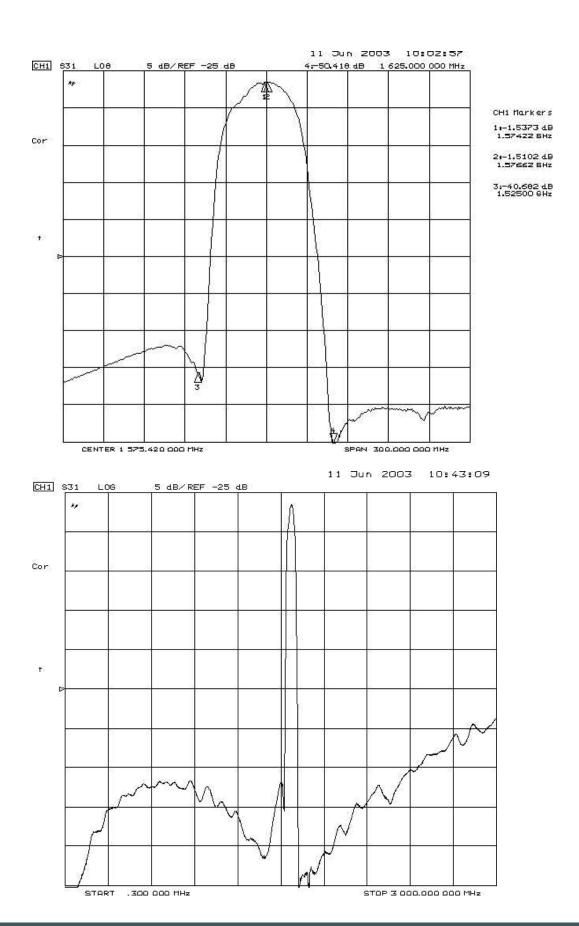
Electrical Connections

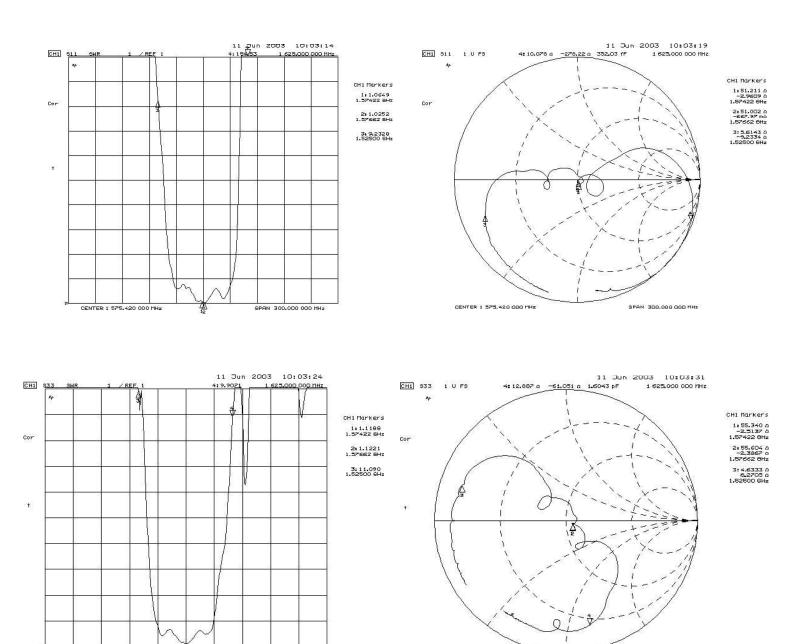
Connection	Terminals			
Input	1			
Output	3			
Ground	All others			



NOTES:

US and international patents may apply. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd This product is made by TAI-SAW Technology Co., LTD. in Taiwan.





CENTER 1 575.420 000 MHz

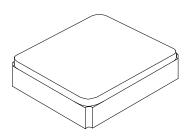
SPAN 300,000 000 MHz

CENTER 1 575,420 000 MHz

SPAN 300.000 000 MHz

SM2520-4 Case

4-Terminal Ceramic Surface-Mount Case 2.5 X 2.0 mm Nominal Footprint



Case Dimensions

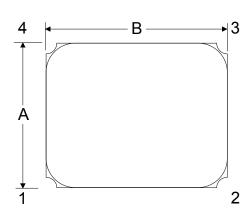
Dimension	mm				
	Min	Nom	Max		
Α	1.88	2.0	2.12		
В	2.38	2.5	2.62		
С			1.00		
D	0.67	0.80	0.83		
E	0.80	0.95	1.10		
F	0.55	0.70	0.85		
G	0.50	0.60	0.70		

Electrical Connections

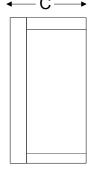
	Connection	Terminals			
Port 1	Single-ended Input	1			
Port 2	Single-ended Output	3			
	Ground	All others			
Single-ended Operation Only					

Materials					
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel				
Lid Plating	2.0 to 3.0 µm Nickel				
Body	Al ₂ O ₃ Ceramic				
Pb Free					

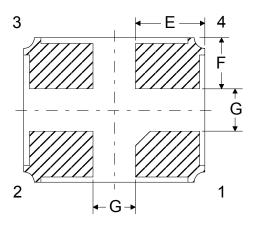
TOP VIEW



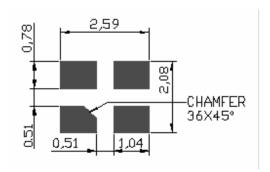




BOTTOM VIEW



PCB Foot Print



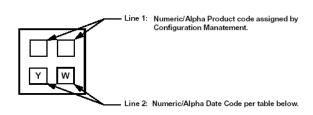
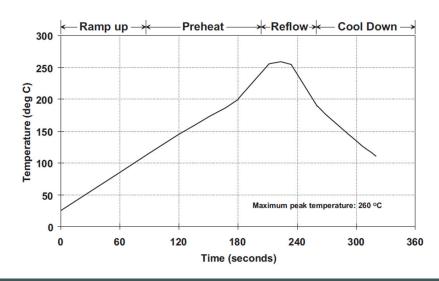


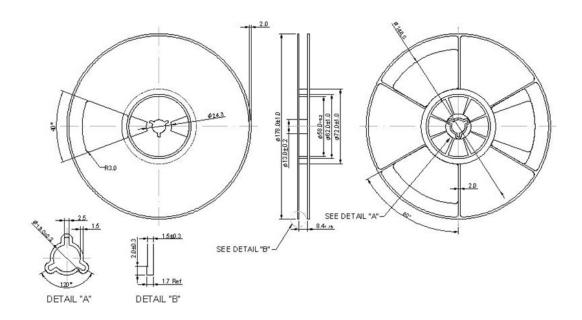
Table 4: SM2520-4

YEAF	RCODE	DE WEEK CODE							
		ALPHA	REPRESENTS	ALPHA	REPRESENTS	ALPHA	REPRESENTS	ALPHA	REPRESENTS
NUMBER	REPRESENTS	CHARACTER	WEEK NO.	CHARACTER	WEEK NO.	CHARACTER	WEEK NO.	CHARACTER	WEEK NO.
3	2013	Α	01	N	14	а	27	n	40
4	2014	В	02	0	15	b	28	0	41
5	2015	С	03	P	16	С	29	р	42
6	2016	D	04	Q	17	d	30	q	43
7	2017	Е	05	R	18	е	31	r	44
8	2018	F	06	S	19	f	32	S	45
9	2019	G	07	T	20	g	33	t	46
0	2020	Н	08	U	21	h	34	u	47
di.		ľ	09	V	22	i ı	35	V	48
		J	10	W	23	j	36	w	49
		K	11	X	24	k	37	X	50
		L	12	Y	25	1	38	у	51
		M	13	Z	26	m	39	z	52

Reflow Profile



Reel Dimension



Tape Dimension

