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.

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!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





RFM products are now Murata products.

SF2149A

46.08 MHz

• TD-SCDMA SAW Filter, 46.08 MHz, 5 MHz BW

- Low Insertion Loss
- 13.3 x 6.5 x 1.9 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	30	VDC
Storage Temperature Range	-40 to +85	°C
Suitable for lead-free soldering - Max. Soldering Profile	260°C	for 10 s



Electrical Characteristics

Characteristic			Notes	Min	Тур	Max	Units
Nominal Center Frequency		f _N	1		46.08		MHz
Passband bandwidth		B _W		5			MHz
Insertion Loss	43.58 48.58 MHz	١L			8	10	
Relative Attenuation to IL @	30 41.98 MHz			20	25		
out of pass band (Rejection)	61.44 MHz		1, 2,3	40	45		dB
	50.18 76.8 MHz			15	25		
	<30 MHz &>76.8 MHz			40	45		
Amplitude ripple (p-p)	43.58 48.58 MHz				0.6	1.0	dB
Amplitude ripple (p-p) @ 25°C	43.58 48.58 MHz				0.8		dB
Group delay ripple (p-p)	43.58 48.58 MHz				100	120	ns
1 dB compression Point	43.58 48.58 MHz			12	15		dBm
Input IP3				35	40		dBm
Operating Temperature				-40		+85	°C
Terminating impedance				1	50	1	Ohm

Case Style	SM13365-12 13.3 x 6.5 mm Nominal Footprint
Lid Symbolization (YY = year, WW = week, S=shift) See note 4	RFM SF2149A // YYWWS

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. Notes:

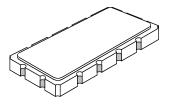
- Unless noted otherwise, all specifications apply over the operating tem-1. perature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
- 2 Únless noted otherwise, all frequency specifications are referenced to the nominal center frequency, fc.
- Rejection is measured as attenuation below the minimum IL point in the 3. passband. Rejection in final user application is dependent on PCB layout and external impedance matching design. See Application Note No. 42 for details
- 4. Part to part absolute delay measurement records the absolute delay

mean across 1 dB passband.

- "LRIP" or "L" after the part number indicates "low rate initial production" 5. and "ENG" or "E" indicates "engineering prototypes." The design, manufacturing process, and specifications of this filter are
- 6.
- subject to change. Either Port 1 or Port 2 may be used for either input or output in the design. However, impedances and impedance matching may vary between Port 1 and Port 2, so that the filter must always be installed in one direction per 7 the circuit design.
- 8. US and international patents may apply.

SM13365-12 Case

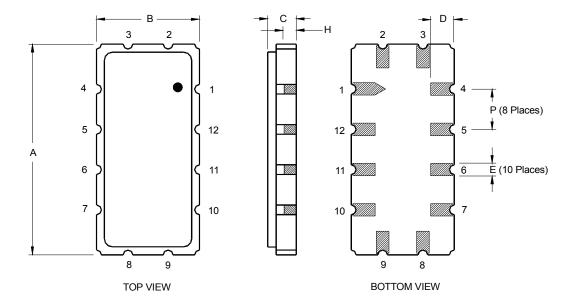
12-Terminal Ceramic Surface-Mount Case 13.3 x 6.5 mm Nominal Footprint



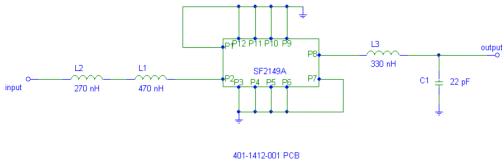
Case Dimensions							
Dimension	mm			Inches			
2	Min	Nom	Max	Min	Nom	Max	
Α	13.08	13.31	13.60	0.515	0.524	0.535	
В	6.27	6.50	6.80	0.247	0.256	0.268	
С		1.91	2.00		0.075	0.079	
D		1.50			0.059		
E		0.79			0.031		
Н		1.0			0.039		
Р		2.54			0.100		

Materials				
Solder Pad Termination	Au plating 30 - 60 ulnches (76.2-152 uM) over 80-200 ulnches (203-508 uM) Ni.			
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phos- phorus) 100-200 ulnches Thick			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

Electrical Connections			
	Connection	Terminals	
Port 1	Input or Return	2	
I OIL I	Return or Input	3	
Port 2	Output or Return	8	
FUILZ	Return or Output	9	
	Ground	All others	
Single	Ended Operation	Return is ground	
Differen	ntial Operation	Return is hot	



Testing Environment



0805 coilcraft inductors

Frequency Response

