

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





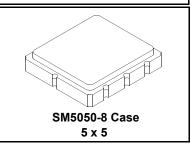




RFM products are now

RF1295C

451.35 MHz **SAW Filter**



Murata products.

- Ideal Front-End Filter for 451.35 MHz Wireless Receivers
- · Low-Loss Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Complies with Directive 2002/95/EC (RoHS)

The RF1295C is a low-loss, compact, and economical surface acoustic wave (SAW) filter designed to provide front-end selectivity in 451.35 MHz receivers. Recevier designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen. Typical applications of these receivers are wireless remote-control and security devices operating in Europe under ETSI I-ETS 300 220.

This coupled-resonator filter (CRF) uses selective null placement to provide suppression, typically greater than 40 dB, of the LO and image spurious responses of superhet receivers with 10.7 MHz IF. Murata's advanced SAW design and fabrication technology is utilized to achieve high performance and very low loss with simple external impedance matching (not included).

Characteristic		Sym	Notes	Minimum	Typical	Maximum	Units
Center Frequency at 25°C	Nominal Frequency	f _{nom}	1, 3, 4, 5		451.35		MHz
Insertion Loss		IL	3, 6		2.5	5.0	dB
3 dB Bandwidth Passband		BW ₃	2, 3, 6	700	1000		kHz
Rejection	at f _c - 21.4 MHz (Image)			35	45		
	at f _c - 10.7 MHz (LO)		3	15	30		dB
	Ultimate				80		
Temperature	Operating Case Temperature	T _C	2, 6	-40		+85	°C
	Turnover Temperature	T _O		15	25	40	°C
	Turnover Frequency	f _O			f _{nom}		MHz
	Frequency Temperature Coefficent	FTC			0.032		ppm/°C ²
Frequency Aging	Absolute Value during the 1 st Year	fA	2		<±10		ppm/yr
External Impedance	Series Inductance	L	6		27		nH
	Shunt Capacitance	C ₁	6		5.6		pF
	Shunt Capacitance	C ₂	6		8.2		pF
Lid Symbolization (Y=y	vear, WW=week, D=day of week)			482	// YWWS		l
Standard Reel Quantity Reel Size 7 Inch Reel Size 13 Inch			9 500 Pieces/R		es/Reel		
			9	3000 Pieces/Reel			

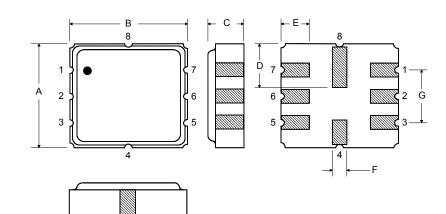
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture which is connected to a 50 Ω test system with VSWR \leq 1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, fc. Note that insertion loss and bandwidth are dependent on the impedance matching component values and quality.
- The frequency f_c is defined as the midpoint between the 3dB frequencies.
- Where noted, specifications apply over the entire specified operating temperature range.
- The turnover temperature, T_O, is the temperature of maximum (or turnover) frequency, f_O.. The nominal frequency at any case temperature, T_C, may be calculated from: $f=f_0[1 - FTC (T_O - T_C)^2]$.
- Frequency aging is the change in fc with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing significantly in subsequent years. The design, manufacturing process, and specifications of this device are subject to change.
- One or more of the following U.S. Patents apply: 4,54,488, 4,616,197, and others pending.
- All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale. Tape and Reel Standard Per ANSI / EIA 481.

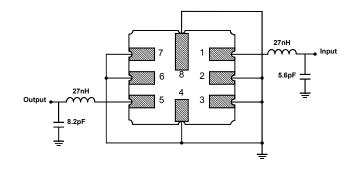
Rating		Value	Units
Input Power Level		10	dBm
DC Voltage		12	VDC
Storage Temperature		-40 to +85	°C
Soldering Temperature	(10 seconds / 5 cycles max.)	260	°C

Electrical Connections

Pin	Connection			
1	Input			
2	Input Return			
3	Ground			
4	Case Ground			
5	Output			
6	Output Return			
7	Ground			
8	Case Ground			



Matching Circuit to 50 $\!\Omega$



Case Dimensions

Dimension	mm			Inches			
	Min	Nom	Max	Min	Nom	Max	
Α	4.8	5.0	5.2	0.189	0.197	0.205	
В	4.8	5.0	5.2	0.189	0.197	0.205	
С	1.3	1.5	1.7	0.050	0.060	0.067	
D	1.98	2.08	2.18	0.078		0.086	
E	1.07	1.17	1.27	0.042	0.046	0.050	
F	0.50	0.64	0.70	0.020	0.025	0.028	
G	2.39	2.54	2.69	0.094	0.100	0.106	