

- Ideal Front-End Filter for 915.75 MHz Receivers
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Ultra Miniature Ceramic QCC8C Package

SF5009

Absolute Maximum Rating (Ta=25°C)						
Parameter	Rating	Unit				
Input Power Level	10	dBm				
DC Voltage VDC	12	V				
Operating Temperature Range	-10 ~ +60	°C				
Storage Temperature Range	-40 ~ +85	°C				

Electronic Characteristics						
	Parameter	Sym	Minimum	Typical	Maximum	Unit
Frequency (25°C)	Nominal Frequency	fc	NS	915.75	NS	MHz
Insertion Loss		IL	-	15.0	16.5	dB
3dB Bandwidth		ВѠз	-	2.6	-	MHz
Rejection	at fc - 5.0 MHz	-	35	46	-	dB
	at fc + 5.0 MHz ~ +200.0 MHz	-	32	43	-	dB
Temperature Stability	Operating Temperature Range	Тс	-10	-	+60	°C
	Turnover Temperature	То	25	40	55	°C
	Turnover Frequency	fo	-	fc	-	KHz
	Frequency Temperature Coefficient	FTC	-	-	-0.032	ppm/°C
Frequency Aging	Absolute Value during the First Year	fA	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins		-	1.0	-	-	ΜΩ

NS = Not Specified

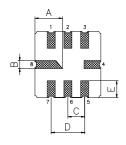
Notes:

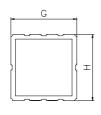
- 1. The frequency f_{C} is defined as the midpoint between the 3dB frequencies.
- 2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR \leq 1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_C . Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
- Unless noted otherwise, specifications apply over the entire specified operating temperature range.
- 4. Frequency aging is the change in f_C with time and is specified at $+65^{\circ}C$ or less. Aging may exceed the specification for prolonged temperatures above $+65^{\circ}C$. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.

- Turnover temperature, T₀, is the temperature of maximum (or turnover) frequency, f₀. The nominal frequency at any case temperature, T_C, may be calculated from: f = f₀ [1 - FTC (T₀ - T_C)²].
- The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
- For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.



Package Dimensions (QCC8C)







Electrical Connections

Terminals	Connection	
1	Input	
2	Input Ground	
5	Output	
6	Output Ground	
3,7	To be Grounded	
4,8	Case Ground	

Package Dimensions

Dimensions	Nom (mm)	Dimensions	Nom (mm)
Α	2.08	E	1.20
В	0.60	F	1.35
С	1.27	G	5.00
D	2.54	Н	5.00

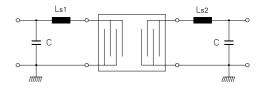
Marking



- 1. F5009 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

Y : Last digit of year WW : Week No.

Test Circuit

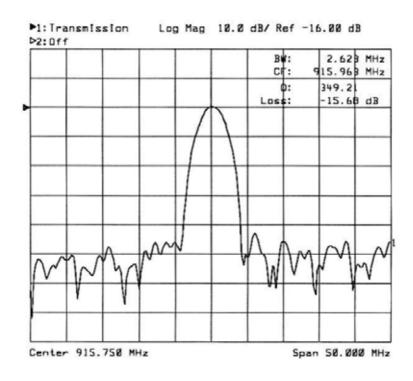


C = 4.0pF

Ls1 = 1.5 tunes of 0.5mm insulated copper, 3.0mm ID.

Ls2 = 2.0 tunes of 0.5mm insulated copper, 3.0mm ID

Typical Frequency Response



Phone: +86 10 6301 4184

Fax: +86 10 6301 9167

Email: sales@vanlong.com

Web: http://www.vanlong.com