

- **Designed to Cordless Telephone ISM in 914.00 MHz**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Ultra Miniature Ceramic QCC8C SMD Package**

SF5004

Absolute Maximum Rating (Ta=25°C)		
Parameter	Rating	Unit
Input Power Level	P_{in}	10
DC Voltage VDC Between Any Two Pins	V_{dc}	12
Operating Temperature Range	T_A	-10 ~ +60
Storage Temperature Range	T_{stg}	-40 ~ +85

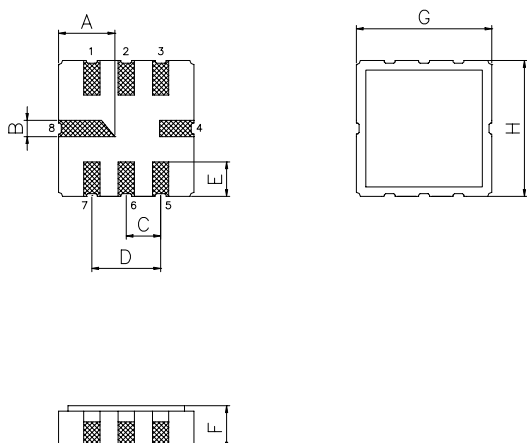
Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	f_c	NS	914.00	NS	MHz
Insertion Loss Attenuation 913.00 ... 915.00 MHz	IL	-	3.5	4.5	dB
Usable Bandwidth	BW	-	± 1.0	-	MHz
Passband Ripple 913.00 ... 915.00 MHz	$\Delta\alpha$	-	0.7	2.0	dB
Absolute Attenuation 958.00 ... 960.00 MHz	α_{rel}	30	35	-	dB
Frequency Temperature Coefficient	FTC	-	-30	-	ppm/K
Frequency Aging Absolute Value during the First Year	$ f_A $	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins	-	1.0	-	-	M Ω
Input / Output Impedance (nominal)	-	-	50	-	Ω

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 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, f_c . Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
4. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. 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.
7. For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

Package Dimensions (QCC8C)



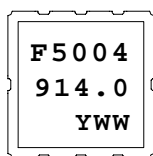
Electrical Connections

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

Package Dimensions

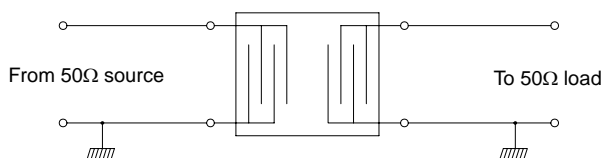
Dimensions	Nom (mm)	Dimensions	Nom (mm)
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00

Marking



1. F5004 - Part Code
2. Frequency (MHz) in 5 digits
3. Date Code:
 Y : Last digit of year
 WW : Week No.

Test Circuit



Typical Frequency Response

