

- 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	dBm				
DC Voltage VDC Between Any Two Pins	V <sub>DC</sub>	12	V				
Operating Temperature Range	$T_{A}$	-10 ~ <b>+</b> 60	°C				
Storage Temperature Range	$\mathcal{T}_{stg}$	-40 ~ +85	°C				

Electronic Characteristics						
Parameter		Minimum	Typical	Maximum	Unit	
Nominal Frequency (at 25°C) (Center frequency between 3dB point)		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	Δα	-	0.7	2.0	dB	
Absolute Attenuation 958.00 960.00 MHz	$lpha_{ m rel}$	30	35	-	dB	
Frequency Temperature Coefficient		-	-30	-	ppm/K	
Frequency Aging Absolute Value during the First Year	fA	-	=	10	ppm/yr	
DC Insulation Resistance Between any Two Pins		1.0	-	-	ΜΩ	
Input / Output Impendance (nominal)		-	50	-	Ω	

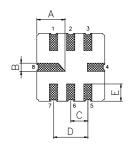
NS = Not Specified

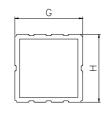
#### Notes:

- 1. The frequency  $f_{\rm C}$  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  $50\Omega$  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,  $f_{\mathbb{C}}$ . 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.
- 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.
- 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 Groud			
6	Output			
3,7	To be Grounded			
4,8	Case Ground			

### **Package Dimensions**

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

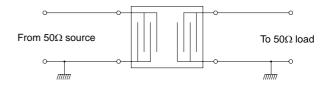
# Marking



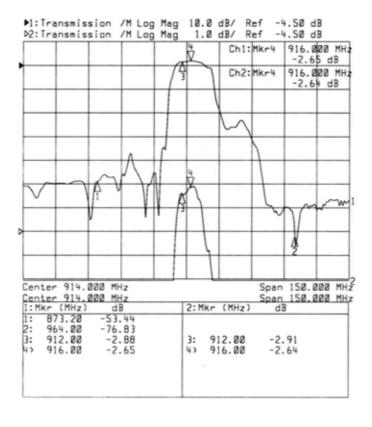
- 1. F5004 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

Y: Last digit of year WW: Week No.

## **Test Circuit**



### **Typical Frequency Response**



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