

- Ideal for Wireless LAN applications
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Ultra Miniature Ceramic QCC8C SMD Package

SF5404

Absolute Maximum Rating (Ta=25°C)							
Parameter		Rating	Unit				
Source Power	Р	10	dBm				
DC Voltage VDC Between Any Two Pins	$V_{ m DC}$	0	V				
Operating Temperature Range	T_{A}	-10 ~ +65	°C				
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C				

Electronic Characteristics						
Parameter		Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)		$f_{\mathbb{C}}$	NS	374.00	NS	MHz
Insertion Loss (including matching network)		IL	-	9.0	10.5	dB
3dB Passband		BW ₃	17	22	-	MHz
Amplitude Ripple (p-p)	$f_{\rm C}\pm7.0~{ m MHz}$	Δα	-	±0.5	1.0	dB
Group Delay Ripple (p-p)	f _C ± 7.0 MHz	Δτ	-	40	100	ns
Relative Attenuation (relat	Relative Attenuation (relative to IL)					
	375.50 352.00 MHz		30	42	-	dB
	352.00 341.00 MHz		40	45	-	dB
341.00 224.00 MHz 390.50 392.00 MHz 392.00 396.00 MHz			48	52	-	dB
		α_{rel}	20	38	-	dB
			30	42	-	dB
	396.00 422.00 MHz		38	44	-	dB
	422.00 454.00 MHz		40	45	-	dB
Temperature coefficient of frequency		FTC	-	-87	-	ppm/K
Frequency Aging Al	osolute Value during the First Year	fA	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins		-	1.0	-	-	MΩ

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 50Ω test system with VSWR ≤ 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.
- 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.

Phone: +86 10 6301 4184

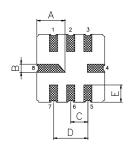
Fax: +86 10 6301 9167

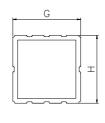
Email: sales@vanlong.com

Web: http://www.vanlong.com



Package Dimensions (QCC8C)







Electrical Connections

Terminals	Connection			
2	Input Ground			
3	Input			
6	Output Ground			
7	Output			
1,5	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

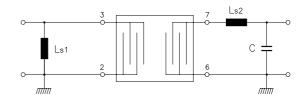
Marking



- 1. F5404 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

Y : Last digit of year WW : Week No.

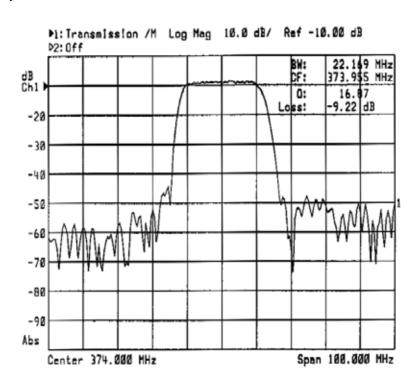
Test Circuit



$$C = 7 pF$$

Ls1 = 27 nH Ls2 = 22 nH

Typical Frequency Response



Phone: +86 10 6301 4184 Fax: +86 10 6301 9167 Email: sales@vanlong.com Web: http://www.vanlong.com