

- Designed to Band Pass in 868.30 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Ultra Miniature Ceramic QCC8C SMD Package

SF5902

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

Electronic Characteristics						
Parameter		Minimum	Typical	Maximum	Unit	
Nominal Frequency (at 25°C) (Center frequency between 3dB point)		NS	868.30	NS	MHz	
Insertion Loss Attenuation 855.30 881.30 MHz	IL	-	3.5	5.0	dB	
3dB Bandwidth	BW ₃	-	36.0	-	MHz	
Passband Ripple 863.00 865.00 MHz	Δα	-	1.5	-	dB	
Absolute Attenuation						
DC 753.30 MHz		25	27	-	dB	
753.30 833.30 MHz		30	35	-	dB	
903.30 1033.30 MHz		30	40	-	dB	
1033.30 1953.30 MHz		20	25	-	dB	
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:

- 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, $f_{\mathbb{C}}$. 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.

Phone: +86 10 6301 4184

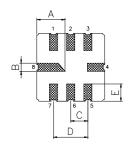
Fax: +86 10 6301 9167

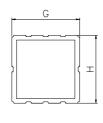
Email: sales@vanlong.com

Web: http://www.vanlong.com



Package Dimensions (QCC8C)







Electrical Connections

Terminals	Connection		
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

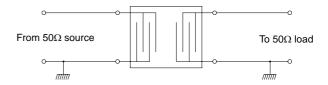
Marking



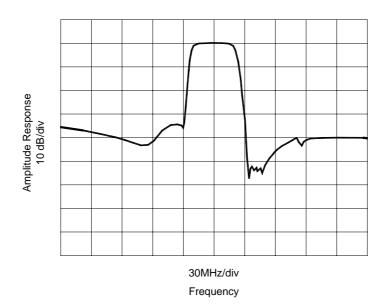
- 1. F5902 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

Y: Last digit of year WW: Week No.

Test Circuit



Typical Frequency Response



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