# 927.00 MHz SAW Filter

SF5012

- Designed to Band Pass in 927.00 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Ultra Miniature Ceramic QCC8C SMD Package

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 <sub>A</sub>	-10 ~ +60	°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 <sub>C</sub>	NS	927.00	NS	MHz
Insertion Loss Attenuation	IL	-	3.5	5.5	dB
3dB Passband	BW <sub>3</sub>	-	±3.5	±5.0	MHz
Passband Ripple (within ±1.0 MHz)	Δα	-	1.0	±1.5	dB
Absolute Attenuation					
DC 887.00 MHz	$\alpha_{rel}$	45	50	-	dB
987.00 … 1127.0 MHz		40	45	-	dB
Frequency Aging Absolute Value during the First Year	fA	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins	-	1.0	-	-	MΩ
Input / Output Impendance (nominal)	-	-	50//10	-	Ω//pF

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*<sub>c</sub>. 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.
- 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

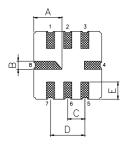
Fax: +86 10 6301 9167

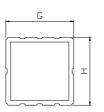
Email: sales@vanlong.com

# 927.00 MHz SAW Filter



# Package Dimensions (QCC8C)





#### **Electrical Connections**

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

#### **Package Dimensions**

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

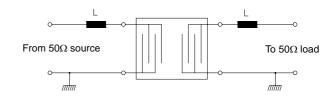


### Marking

ĩ		1
	F5012	
	927.0	
	YWW	
Ľ		1

- 1. F5012 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:
  - Y : Last digit of year WW : Week No.





L = 10 nH

## **Typical Frequency Response**

▷1:Transmission /M Log Mag 10.0 dB/ Ref -2.30 dB ▶2:Transmission /M Log Mag 1.0 dB/ Ref -3.31 dB 2 1:Þ 2: Center 927.000 MHz Span 200.000 MHz Center 927.000 MHz 1:Mkr (MHz) dB Span 100.000 MHz 2:Mkr (MHz) dB 1: 923.5000 -2.819 1> 923.5000 -2.764 930.5000 930.5000 -2.809 2: -2.788 2>

Phone: +86 10 6301 4184

Fax: +86 10 6301 9167

Email: sales@vanlong.com

Web: http://www.vanlong.com