

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

SF5012

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	927.00	NS	MHz	
Insertion Loss Attenuation		-	3.5	5.5	dB	
3dB Passband		-	±3.5	±5.0	MHz	
Passband Ripple (within ±1.0 MHz)		-	1.0	±1.5	dB	
Absolute Attenuation						
DC 887.00 MHz	$lpha_{rel}$	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	-	-	ΜΩ	
Input / Output Impendance (nominal)		-	50//10	-	Ω//pF	

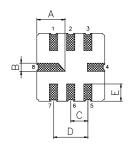
NS = Not Specified

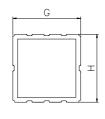
Notes:

- 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.
- 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	
2	Input Ground	
5	Output	
6	Output Groud	
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	

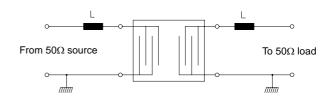
Marking



- 1. F5012 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

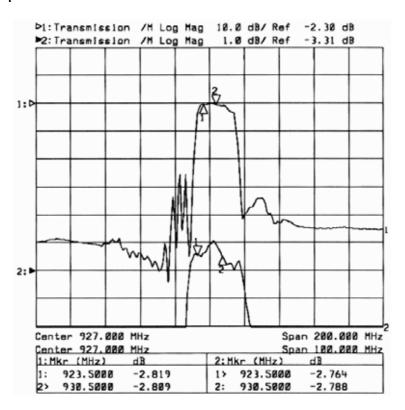
Y: Last digit of year WW: Week No.

Test Circuit



L = 10 nH

Typical Frequency Response



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