

- **Designed to AMPS, CDMA, TDMA Selectivity in 915.00 MHz**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Ultra Miniature Ceramic DCC6C SMD Package**
- **Complies with Directive 2002/95/EC (RoHS Compliant)**

# SF5007

Absolute Maximum Rating (Ta=25°C)		
Parameter	Rating	Unit
Input Power Level $P_{in}$	15	dBm
DC Voltage VDC Between Any Two Pins $V_{DC}$	12	V
Operating Temperature Range $T_A$	-10 ~ +65	°C
Storage Temperature Range $T_{stg}$	-40 ~ +85	°C

Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	$f_c$	NS	915.00	NS	MHz
Insertion Loss 910.00 ... 920.00 MHz	$IL$	-	3.5	5.5	dB
Usable Bandwidth	$BW$	-	26.0	-	MHz
Amplitude Ripple 910.00 ... 920.00 MHz	$\Delta\alpha$	-	±0.5	±1.0	dB
Absolute Attenuation					
DC ... 795.00 MHz	$\alpha_{rel}$	42	50	-	dB
795.00 ... 865.00 MHz		36	45	-	dB
865.00 ... 950.00 MHz		23	27	-	dB
950.00 ... 1015.0 MHz		38	48	-	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 Impedance (nominal)	-	-	50	-	Ω

NS = Not Specified

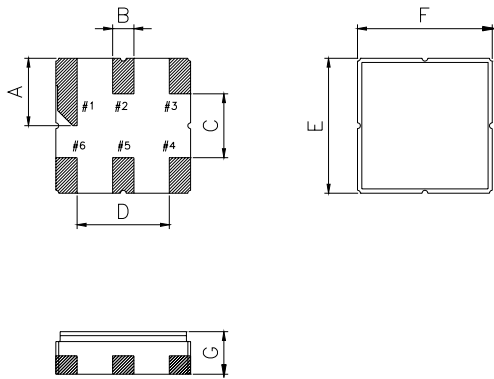
**Notes:**

- The frequency  $f_c$  is defined as the midpoint between the 3dB frequencies.
- 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.
- For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

# 915.00 MHz SAW Filter



## Package Dimensions (DCC6C)



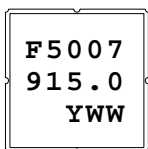
## Electrical Connections

Terminals	Connection
2	Input
5	Output
1,3,4,6	Case Ground

## Package Dimensions

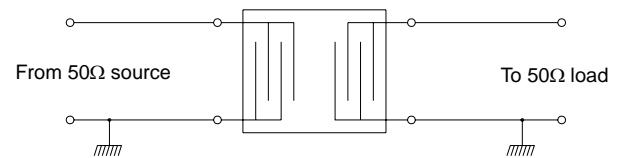
Dimensions	Nom (mm)	Dimensions	Nom (mm)
A	1.5	E	3.0
B	0.6	F	3.0
C	1.5	G	1.1
D	1.8		

## Marking



1. F5007 - Part Code
2. Frequency (MHz) in 5 digits
3. Date Code:  
Y : Last digit of year  
WW : Week No.

## Test Circuit



## Typical Frequency Response

