

- **Designed to ISM900 System Selectivity in 915.00 MHz**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Ultra Miniature Ceramic DCC6C SMD Package**

# SF5008

Absolute Maximum Rating (Ta=25°C)		
Parameter	Rating	Unit
Input Power Level	$P_{in}$	15
DC Voltage VDC Between Any Two Pins	$V_{dc}$	12
Operating Temperature Range	$T_A$	-10 ~ +60
Storage Temperature Range	$T_{stg}$	-40 ~ +85

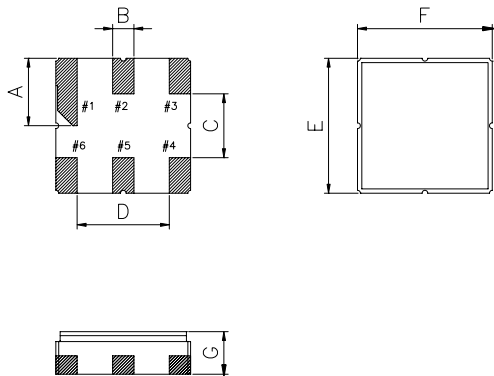
Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	$f_c$	NS	915.00	NS	MHz
Insertion Loss      902.00 ... 928.00 MHz	$IL$	-	3.5	5.5	dB
Usable Pass Bandwidth	$BW$	-	26.0	-	MHz
Amplitude Ripple      902.00 ... 928.00 MHz	$\Delta\alpha$	-	1.5	-	dB
Absolute Attenuation					
DC ... 800.00 MHz		35	27	-	dB
800.00 ... 880.00 MHz	$\alpha_{rel}$	30	35	-	dB
950.00 ... 1080.0 MHz		30	40	-	dB
1080.0 ... 2000.0 MHz		20	25	-	dB
Frequency Aging      Absolute Value during the First Year	$ f_A $	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins	-	1.0	-	-	MΩ
Input / Output Impedance (nominal)	-	-	50	-	Ω

NS = Not Specified

**Notes:**

1. 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,  $f_c$ . 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.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. 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.

Package Dimensions (DCC6C)



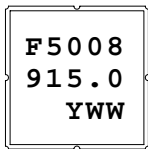
Electrical Connections

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

Package Dimensions

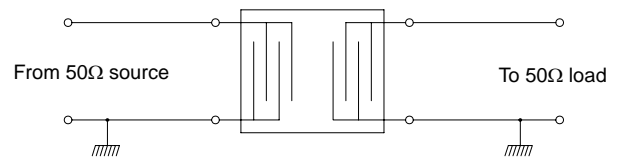
Dimensions	Nom (mm)	Dimensions	Nom (mm)
A	1.5	E	3.0
B	0.6	F	3.0
C	1.5	G	1.1
D	1.8		

Marking



1. F5008 - Part Code
2. Frequency (MHz) in 5 digits
3. Date Code:  
 Y : Last digit of year  
 WW : Week No.

Test Circuit



Typical Frequency Response

