

- **Designed to AMPS, CDMA, TDMA Selectivity in 836.50 MHz**
- **Low-Loss, Coupled-Resonator Quartz Design**
- **Simple External Impedance Matching**
- **Ultra Miniature Ceramic DCC6C SMD Package**

SF5905

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

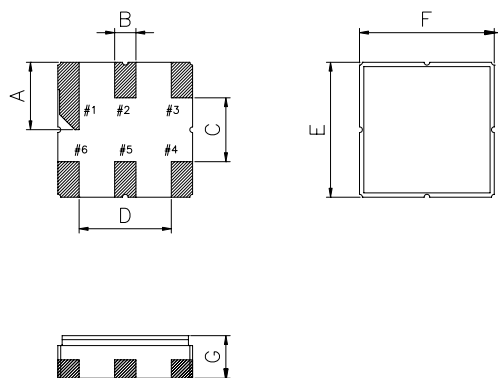
Electronic Characteristics					
Parameter	Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)	f_c	NS	836.50	NS	MHz
Insertion Loss 824.00 ... 849.00 MHz	IL	-	2.7	3.5	dB
3dB Passband	BW_3	-	± 17.4	-	MHz
Usable Bandwidth	BW	-	± 12.5	-	MHz
Amplitude Ripple 824.00 ... 849.00 MHz	$\Delta\alpha$	-	0.85	1.5	dB
Absolute Attenuation					
DC ... 800.00 MHz	α_{rel}	40	50	-	dB
869.00 ... 925.00 MHz		28	32	-	dB
925.00 ... 2000.0 MHz		40	45	-	dB
Frequency Aging Absolute Value during the First Year	$ f_A $	-	-	10	ppm/yr
DC Insulation Resistance Between any Two Pins	-	1.0	-	-	M Ω
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 50 Ω 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.
- 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 (DCC6C)



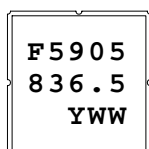
Electrical Connections

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

Package Dimensions

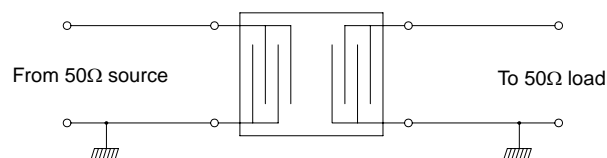
Dimensions	Nom (mm)	Dimensions	Nom (mm)
A	1.5	E	3.0
B	0.6	F	3.0
C	1.5	G	1.1
D	1.8		

Marking



1. F5905 - Part Code
2. Frequency (MHz) in 5 digits
3. Date Code:
Y : Last digit of year
WW : Week No.

Test Circuit



Typical Frequency Response

