

- **Designed to AMPS, CDMA, TDMA Selectivity in 836.50 MHz**
- **Low-Loss, High Attenuation**
- **Simple External Impedance Matching**
- **Ultra Miniature Ceramic DCC6C SMD Package**
- **Complies with Directive 2002/95/EC (RoHS Compliant)**

SF5905

ABSOLUTE MAXIMUM RATING (Ta=25°C)			
Parameter		Rating	Unit
Input Power Level	P_{in}	20	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

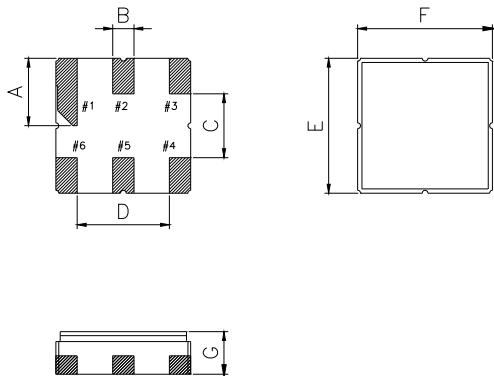
ELECTRONIC CHARACTERISTICS						
Parameter		Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C) (Center frequency between 3dB point)		f_c	NS	836.50	NS	MHz
Insertion Loss	824.00 ... 849.00 MHz	IL	-	2.7	3.5	dB
3dB Passband		BW_3	-	±17.4	-	MHz
Usable Bandwidth		BW	-	±12.5	-	MHz
Amplitude Ripple	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	$ 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.

PACKAGE DIMENSIONS (DCC6C)



Electrical Connections

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

Package Dimensions

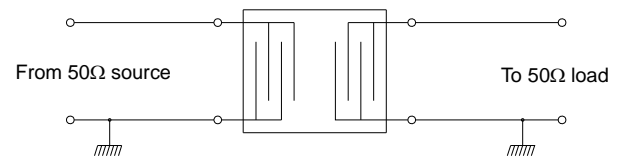
Dimensions	Nom (mm)	Dimensions	Nom (mm)
A	1.5	E	3.0
B	0.6	F	3.0
C	1.5	G	1.1
D	1.8		

MARKING



- SF5905 - Part Code
- Date Code:
 Y : Last digit of year
 WW : Week No.

TEST CIRCUIT



TYPICAL FREQUENCY RESPONSE

