

- 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	$V_{ m DC}$	12	V				
Operating Temperature Range	T_{A}	-10 ~ + 65	°C				
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C				

ELECTRONIC CHARACTERISTICS						
Parameter		Sym	Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C)		f _C	NS	836.50	NS	MHz
(Center frequency between 3dB point)						
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	Δα	-	0.85	1.5	dB
Absolute Attenuation						
DC 800.00 MHz 869.00 925.00 MHz		-	40	50	-	dB
		$lpha_{ m rel}$	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	-	-	ΜΩ
Input / Output Impendance (nominal)		-	=	50	-	Ω

NS = Not Specified

Notes:

- 1. The frequency $f_{\mathbb{C}}$ 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.

Phone: +86 (10) 5820 3910

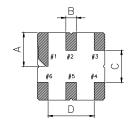
Fax: +86 (10) 5820 3915

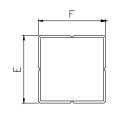
Email: sales@vanlong.com

Web: http://www.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)
Α	1.5	Е	3.0
В	0.6	F	3.0
С	1.5	G	1.1
D	1.8		

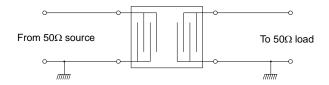
MARKING



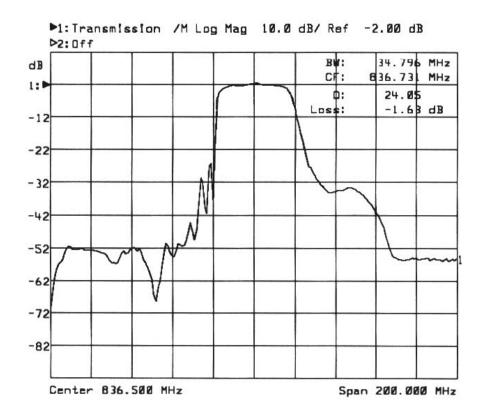
1. SF5905 - Part Code

2. Date Code: Y: Last digit of year WW : Week No.

TEST CIRCUIT



TYPICAL FREQUENCY RESPONSE



Phone: +86 (10) 5820 3910

Fax: +86 (10) 5820 3915

Email: sales@vanlong.com

Web: http://www.vanlong.com