

- Designed to EGMS Rx Selectivity in 945.00 MHz
- · Low-Loss, High Attenuation
- Simple External Impedance Matching
- Ultra Miniature Ceramic DCC6 SMD Package
- Complies with Directive 2002/95/EC (RoHS Compliant)

SF5013

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	$T_{ m stg}$	-40 ~ +85	°C				

ELECTRONIC CHARACTERISTICS					
Parameter		Minimum	Typical	Maximum	Unit
Nominal Frequency (at 25°C)		NS	945.00	NS	MHz
(Center frequency between 3dB point)					
Insertion Loss 930.00 960.00 MHz	IL	-	2.7	3.6	dB
3dB Passband	BW	-	±19.0	-	MHz
Usable Passband	BW	-	±15.0	-	MHz
Amplitude Ripple (p-p) 930.00 960.00 MHz	Δα	-	1.0	1.8	dB
Absolute Attenuation					
DC 885.00 MHz		45	54	-	dB
885.00 915.00 MHz	$lpha_{\sf rel}$	18	25	-	dB
990.00 1050.0 MHz		20	28	-	dB
1050.0 2000.0 MHz		48	58	-	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.
- 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

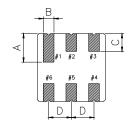
Fax: +86 (10) 5820 3915

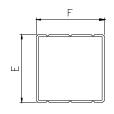
Email: sales@vanlong.com

Web: http://www.vanlong.com



PACKAGE DIMENSIONS (DCC6)







Electrical Connections

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

Package Dimensions

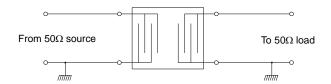
Dimensions	Nom (mm)	Dimensions	Nom (mm)	
Α	1.90	E	3.80	
В	0.64	F	3.80	
С	1.00	G	1.20	
D	1.27			

MARKING

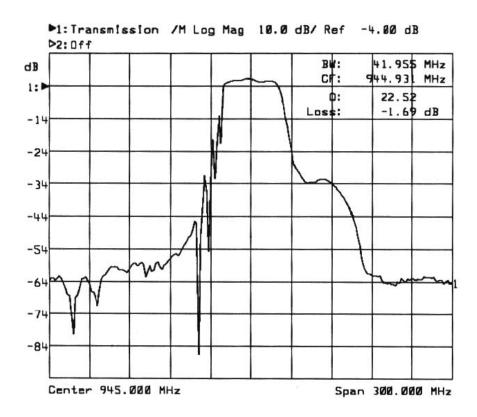


- 1. SF5013 Part Code
- Date Code:
 Y: Last digit of year
 WW: Week No.

TEST CIRCUIT



TYPICAL FREQUENCY RESPONSE



Phone: +86 (10) 5820 3910

Fax: +86 (10) 5820 3915

Email: sales@vanlong.com

Web: http://www.vanlong.com