864.00 MHz SAW Filter

VANLONG

SF5900

- Designed to Wireless Audio Applications in 864.00 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Ultra Miniature Ceramic QCC8C SMD Package
- Complies with Directive 2002/95/EC (RoHS Compliant)

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

Electronic Characteristics							
Parameter		Minimum	Typical	Maximum	Unit		
Nominal Frequency (at 25°C) (Center frequency between 3dB point)		NS	864.00	NS	MHz		
Insertion Loss Attenuation 863.00 865.00 MHz	IL	-	4.0	-	dB		
Usable Bandwidth		-	±1.0	-	MHz		
Passband Ripple 863.00 865.00 MHz	Δα	-	-	1.5	dB		
Absolute Attenuation 820.00 823.00 MHz 841.00 844.00 MHz 884.00 887.00 MHz							
		40	-	-	dB		
		35	-	-	dB		
		35	-	-	dB		
905.00 908.00 MHz		40	-	-	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 Impendance (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, $f_{\rm C}$. 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.
- 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.
- 7. For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

Phone: +86 (10) 5820-3910

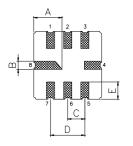
Fax: +86 (10) 5820-3915

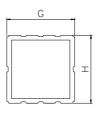
Email: sales@vanlong.com

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Package Dimensions (QCC8C)





Electrical Connections

Terminals	Connection	
1	Input Ground	
2	Input	
5	Output Groud	
6	Output	
3,7	To be Grounded	
4,8	Case Ground	

Package Dimensions

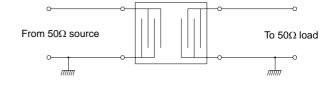
Dimensions	Nom (mm)	Dimensions	Nom (mm)	
A	2.08	E	1.20	
В	0.60	F	1.35	
С	1.27	G	5.00	
D	2.54	Н	5.00	

Marking

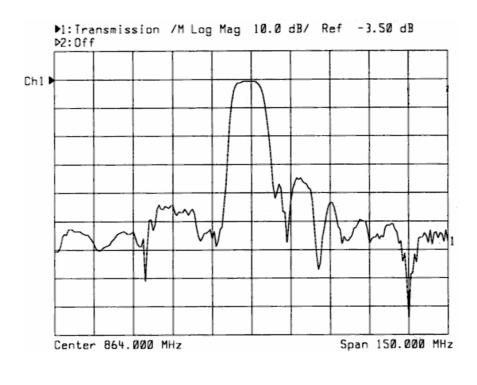
F5900 864.0 YWW

- 1. F5900 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:
 - Y : Last digit of year WW : Week No.

Test Circuit



Typical Frequency Response



Fax: +86 (10) 5820-3915