

- Designed to Band Pass in 433.92 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Ultra Miniature Ceramic QCC8C SMD Package

SF5507

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

Electronic Characteristics						
Parameter		Minimum	Typical	Maximum	Unit	
Nominal Frequency (at 25°C) (Center frequency between 3dB point)		NS	433.92	NS	MHz	
Insertion Loss Attenuation 431.92 435.92 MHz		-	3.5	5.0	dB	
Usable Bandwidth	BW	-	±2.0	-	MHz	
3dB Passband	BW ₃	-	±4.0	-	MHz	
Passband Ripple 431.92 435.92 MHz	Δα	-	-	±1.0	dB	
Absolute Attenuation						
DC 403.92 MHz	$lpha_{rel}$	40	50	-	dB	
463.92 633.92 MHz		45	55	-	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	

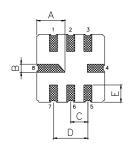
NS = Not Specified

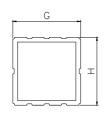
Notes:

- 1. The frequency $f_{\rm C}$ 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.
- 7. For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.



Package Dimensions (QCC8C)







Electrical Connections

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

Package Dimensions

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

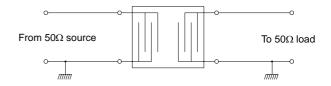
Marking



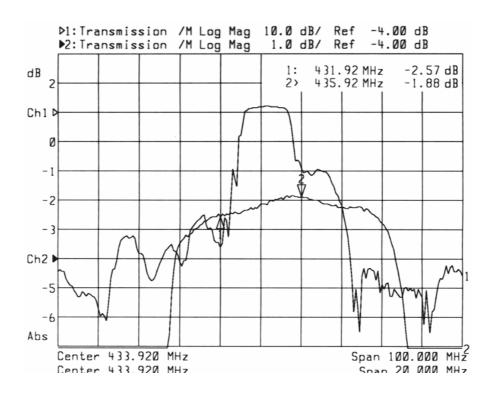
- 1. F5507 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

Y: Last digit of year WW: Week No.

Test Circuit



Typical Frequency Response



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