

- Ideal for DBS Receivers, IF Filter
- Constant Group Delay
- Improved ESD capability by integrated shunt resistors
- Ultra Miniature Ceramic QCC8C SMD Package

SF5511

Absolute Maximum Rating (Ta=25°C)								
Parameter		Rating	Unit					
AC Voltage Between Any Two Pins	V_{PP}	5	V					
DC Voltage Between Any Two Pins	$V_{ m DC}$	0	V					
Operating Temperature Range	T_{A}	-25 ~ +85	°C					
Storage Temperature Range	$T_{ m stg}$	-40 ~ +85	°C					

Electronic Characteristics						
	Parameter	Sym	Minimum	Typical	Maximum	Unit
Center Frequency (25°C)	Between 3dB point	f _C	NS	480.00	NS	MHz
	Tolerance from 480.00 MHz	∆f _C	-	-	1.0	MHz
Insertion Attenuation		α	-	21.0	23.0	dB
3dB Bandwidth		BW ₃	16.60	17.80	18.60	MHz
Relative Attenuation						
	471.00 MHz		-	3.4	5.4	dB
	489.00 MHz	lpharel	-	3.0	5.4	dB
Lower Sidelobe	430.00 461.00 MHz		38	50	-	dB
Upper Sidelobe	499.00 530.00 MHz		38	45	-	dB
Reflected Wave Signal Suppression			40.0	46.0		dB
	0.1μs 2.0μs after main pulse	_	40.0	40.0	_	QD.
Amplitude Ripple (p-p)	476.00 484.00 MHz	Δα	-	0.6	1.0	dB
Group Delay	480.00 MHz	τ	-	281.0	-	ns
Group Delay Ripple (p-p)	471.50 488.50 MHz	Δτ	-	11.5	18.0	ns
Temperature Coefficient of Frequency		FTC	-	-94	-	ppm/K

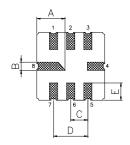
NS = Not Specified

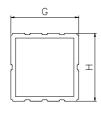
Notes:

- 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.
- 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 Ground			
2	Input			
5	Output Ground			
6	Output			
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

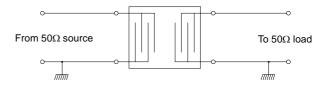
Marking



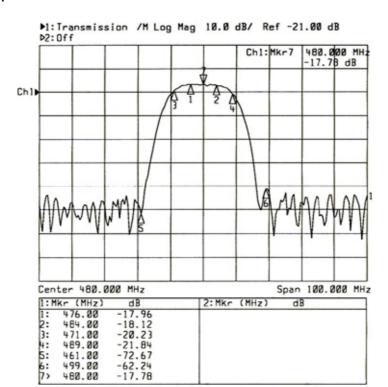
- 1. F5511 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

Y: Last digit of year WW: Week No.

Test Circuit



Typical Frequency Response



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-72.67