- ***Ideal for Receivers of Satellite Broadcasting System***
- ***Constant Group Delay***
- ***Improved ESD capability by integrated shunt resistors***
- ***Ultra Miniature Ceramic QCC8C SMD Package***

SF5510

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

Electronic Characteristics						
Parameter		Sym	Minimum	Typical	Maximum	Unit
Center Frequency (25°C)	Between 3dB point	f_C	NS	479.50	NS	MHz
	Tolerance from 479.50 MHz	Δf_C	-	-	1.0	MHz
Insertion Attenuation	479.50 MHz	α	-	22.0	24.0	dB
Pass Bandwidth	$\alpha rel \leq$ 3dB	BW_3	-	15.8	-	MHz
Relative Attenuation	467.50 MHz	αrel	-	-47	-30	dB
	469.50 MHz		-	-13	-10	dB
	471.50 MHz		-5	-2.5	-	dB
	487.50 MHz		-5	-4.0	-	dB
	489.50 MHz		-	-21	-10	dB
	491.50 MHz		-	-47	-30	dB
Amplitude Ripple (p-p)	474.50 … 484.50 MHz	$\Delta\alpha$	-	0.6	1.5	dB
Group Delay Ripple (p-p) (Delay aperture = 1.25 MHz)	473.50 … 485.50 MHz	$\Delta\tau$	-	14	40	ns
Temperature Coefficient of Frequency		FTC	-	-18	-	ppm/K

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 ≤ 1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_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.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. 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.

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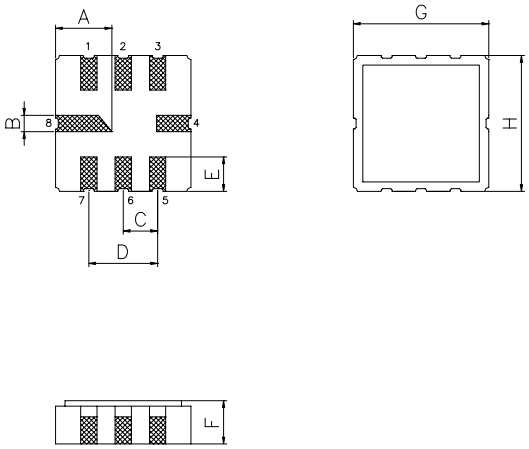
479.50 MHz SAW Filter

Package Dimensions (QCC8C)



Electrical Connections

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

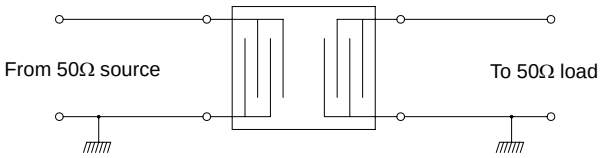
Package Dimensions

Dimensions	Nom (mm)	Dimensions	Nom (mm)
A	2.08	E	1.20
B	0.60	F	1.35
C	1.27	G	5.00
D	2.54	H	5.00

Marking

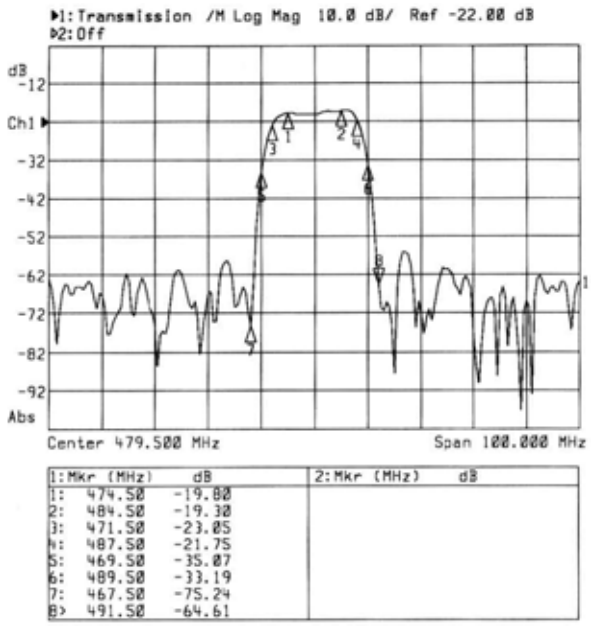
1. F5510 - Part Code
2. Frequency (MHz) in 5 digits
3. Date Code:
   Y : Last digit of year
   WW : Week No.

Test Circuit

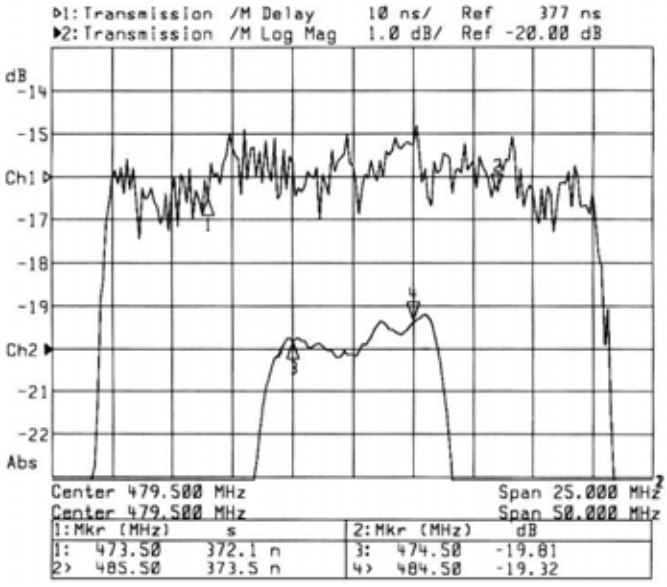


Typical Frequency Response

Wide Band



Narrow Band and Group Delay



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