480.00 MHz SAW Filter

VANLONG

- Ideal for DBS Receivers, IF Filter
- Constant Group Delay
- Improved ESD capability by integrated shunt resistors
- Ultra Miniature Ceramic QCC8C SMD Package
- Complies with Directive 2002/95/EC (RoHS Compliant)

SF5512

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 _{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	fc	NS	480.00	NS	MHz
	Tolerance from 480.00 MHz	∆fc	-	-	1.0	MHz
Insertion Attenuation		α	-	22.5	24.0	dB
3dB Bandwidth		BW ₃	25.60	26.60	27.60	MHz
Relative Attenuation						
	466.50 MHz		-	3.0	4.6	dB
	493.50 MHz	arel	-	3.2	4.6	dB
Lower Sidelobe	430.00 455.50 MHz		40	46	-	dB
Upper Sidelobe	504.50 530.00 MHz		38	43	-	dB
Reflected Wave Signal Suppression		_	40.0	46.0		dB
	0.1µs 2.0µs after main pulse	-	40.0	40.0	-	uв
Amplitude Ripple (p-p)	473.50 486.50 MHz	Δα	-	0.6	1.0	dB
Group Delay	480.00 MHz	τ	-	227.5	-	ns
Group Delay Ripple (p-p)	467.00 493.00 MHz	$\Delta \tau$	-	8.5	15.0	ns
Temperature Coefficient of Frequency		FTC	-	-86	-	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 \leq 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

Fax: +86 (10) 5820 3915

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.

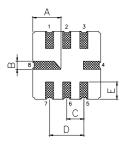
Email: sales@vanlong.com

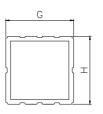
Phone: +86 (10) 5128 1211

480.00 MHz SAW Filter



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

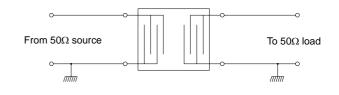
Dimensions	Nom (mm)	Dimensions	Nom (mm)	
A	2.08	E	1.20	
В	0.60	F	1.35	
С	1.27	G	5.00	
D	2.54	Н	5.00	

Marking

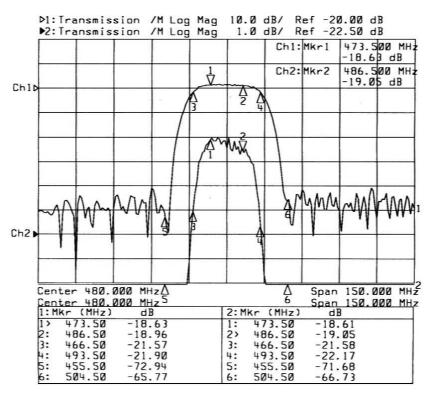
F5512 480.0 YWW

- 1. F5512 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:
 - Y : Last digit of year
 - WW : Week No.

Test Circuit



Typical Frequency Response



 Phone:
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