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 _{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	∆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	lpharel	-	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 Sup	pression 0.1μs 2.0μs after main pulse	-	40.0	46.0	-	dB
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:

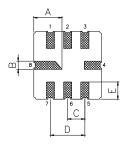
- 1. The frequency f_C is defined as the midpoint between the 3dB frequencies.
- 2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR \leq 1.2:1. The test fixture L and C are adjusted for minimum 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.
- 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.
- For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

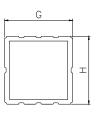
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Package Dimensions (QCC8C)





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

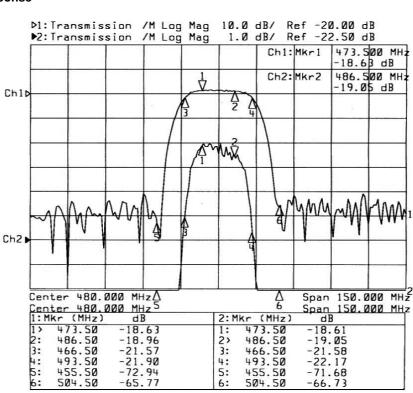


Marking



- SF5512 Part Code
 Date Code:
- Y : Last digit of year
- WW : Week No.
- 3. : Indicates terminal 1

Typical Frequency Response



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Test Circuit

