480.00 MHZ SAW FILTER

- 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)

ABSOLUTE MAXIMUM RATING (T_A =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	$T_{\rm stg}$	-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 Sup	pression 0.1µs 2.0µs after main pulse	-	40.0	46.0	-	dB
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	$\Delta \tau$	-	11.5	18.0	ns
Temperature Coefficient of	Frequency	FTC	-	-94	-	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.
- 7. For questions on technology, prices and delivery please contact our sales offices or e-mail sales@vanlong.com.

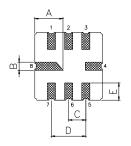
Phone: +86 (10) 5820 3910	Fax: +86 (10) 5820 3915	Email: sales@vanlong.com	Web: http://www.vanlong.com
SF5511	Revision No. 1		Page 1 of 2
© VANLONG TECHNOLOGY CO., LTD.	August 17, 2009		

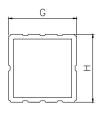


480.00 MHZ SAW FILTER



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

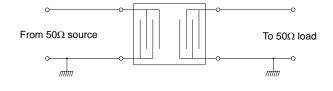


MARKING

SF5511 YWW

- Laser or Ink marking 1. F5511 - Part Code 2. Date Code:
 - Y : Last digit of year WW : Week No.

TEST CIRCUIT



TYPICAL FREQUENCY RESPONSE

▶1:Transmission /M Log Mag 10.0 dB/ Ref -21.00 dB ₽2:Off 480.000 MHz -17.78 dB Ch1:Mkr7 Ch1 <u>A</u>2 Center 480.000 MHz Span 100.000 MHz 1:Mkr (MHz) 2:Mkr (MHz) dB dB 476.00 484.00 471.00 -17.96 1234567 -18.12 -20.23 -21.84 -72.67 -62.24 -17.78 489.00 461.00 480.00

Phone: +86 (10) 5820 3910 SF5511

© VANLONG TECHNOLOGY CO., LTD.

Email: sales@vanlong.com