

- Designed to Provide Front-end Selectivity in 345.00 MHz
- Low-Loss, Coupled-Resonator Quartz Design
- Simple External Impedance Matching
- Ultra Miniature Ceramic QCC8C SMD Package

SF5403

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

Electronic Characteristics							
Parameter		Sym	Minimum	Typical	Maximum	Unit	
Nominal Frequency (at 25°C) (Center frequency between 3dB point)		f _C	NS	345.00	NS	MHz	
Insertion Loss Attenuation		IL	-	3.0	5.0	dB	
3dB Passband		BW ₃	600	900	-	KHz	
Passband Ripple		-	-	-	±1.0	dB	
Rejection	At f _C - 21.4 MHz (Image)	-	40	50	-	dB	
	At f _C - 10.7 MHz (LO)	-	20	30	-	dB	
	Ultimate	-	-	60	-	dB	
Temperature Stability	Operating Temperature Range	T _C	-10	-	+60	°C	
	Turnover Temperature	To	25	-	55	°C	
	Turnover Frequency	f _O	-	f _C	-	MHz	
	Frequency Temperature Coefficient	FTC	=	0.032	-	ppm/C ²	
Frequency Aging Absolute Value during the First Year		fA	=	-	10	ppm/yr	
DC Insulation Resistance Between any Two Pins		-	1.0	-	-	ΜΩ	

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 ≤ 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.
- Unless noted otherwise, specifications apply over the entire specified operating temperature range.
- 4. Frequency aging is the change in f_C with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.

- 5. Turnover temperature, T_0 , is the temperature of maximum (or turnover) frequency, f_0 . The nominal frequency at any case temperature, $T_{\rm C}$, may be calculated from: $f = f_0 \left[1 FTC \left(T_0 T_{\rm C} \right)^2 \right]$.
- 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.

Phone: +86 10 6301 4184

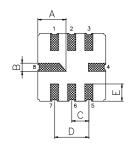
Fax: +86 10 6301 9167

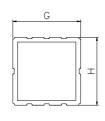
Email: sales@vanlong.com

Web: http://www.vanlong.com



Package Dimensions (QCC8C)







Electrical Connections

Terminals	Connection		
1	Input Ground		
2	Input		
5	Output Groud		
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

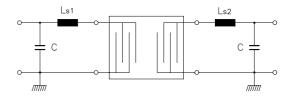
Marking



- 1. F5403 Part Code
- 2. Frequency (MHz) in 5 digits
- 3. Date Code:

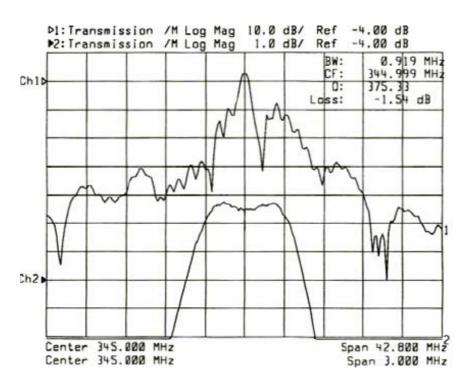
Y: Last digit of year WW: Week No.

Test Circuit



C = 12 pF Ls1 = Ls2 = 65 nH

Typical Frequency Response



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