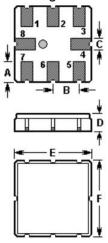


SAW FILTER

Part Number: VTF43396

The VTF43396 is a low-loss, compact, and economical surface-acoustic-wave (SAW) RF filter in a surface-mount ceramic QCC8B case for remote control receivers.

1. Package Dimension (QCC8B)



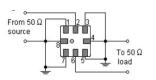
Pin	Configuration Input		
2			
1, 3	Input Ground		
6	Output		
5, 7	Output Ground		
4, 8	to be grounded		

Sign	Data (unit: mm)	Sign	Data (unit: mm)
Α	1.00	D	1.50
В	1.27	Е	3.80
С	0.60	F	3.80

2. Marking

VTF 43396

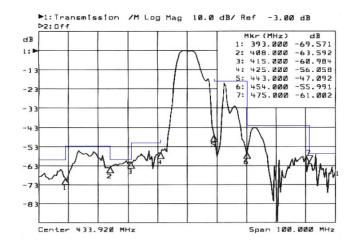
3. Test Circuit



Laser Marking

4. Typical Frequency Response

No matching network required for operation at $50 \ensuremath{\Omega}$





5. Performance

5-1. Maximum Ratings

Rating		Value	Unit	
Source Power	Ps	10	dBm	
DC Voltage	$V_{ m DC}$	0	V	
Storage Temperature Range	$T_{ m stg}$	-45 to +90	$^{\circ}$	
Operating Temperature Range	T _A	-40 to +85	$^{\circ}$	

5-2. Electronic Characteristics

Operating Temperature Range: T = -40 to 85 °C °C

Terminating Impedance: $Z S = 50\Omega$, $Z L = 50\Omega$

Characteristic		Min.	Тур.	Max.	Unit
Center Frequency	f _C		433.920		MHz
Insertion Loss 433.00 434.71 MHz	IL		2.8	4.0	dB
Amplitude Ripple (p-p) 433.00 434.71 MHz	Δα		0.3	1.0	dB
Relative Attenuation (relative to <i>IL</i>) 10.00 350.00 MHz 350.00 393.00 MHz 393.00 408.00 MHz 408.00 415.00 MHz 415.00 425.50 MHz 443.50 454.00 MHz 454.00 475.00 MHz 475.00 650.00 MHz 650.00 1000.0 MHz	α _{rel}	60 52 45 52 40 12 34 48 45	65 57 50 57 48 16 39 53 49	- - - - -	dB dB dB dB dB dB dB
Temperature Coefficient of Frequency	TC _f		-30		ppm/K

(i) CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

- 1. The frequency fc 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.
- 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 info@vtorch.ca