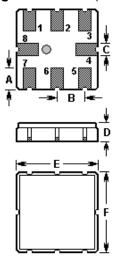


SAW FILTER

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

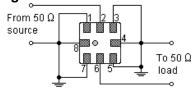
Sign	Data (unit: mm)	Sign	Data (unit: mm)
Α	1.00	D	1.50
В	1.27	E	3.80
С	0.60	F	3.80

2. Marking

VTF 43396

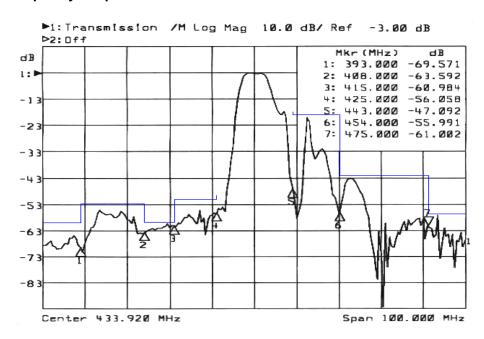
Laser Marking

3. Matching Circuit



No matching network required for operation at 50Ω

4. Typical Frequency Response



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5. Performance

5-1. Maximum Ratings

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

5-2. Electronic Characteristics

Operating Temperature Range: $T = -40^{\circ}C$ to $85^{\circ}C$ 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	$lpha_{ m rel}$	60 52 45 52 40 12 34 48 45	65 57 50 57 48 16 39 53 49	 	dB dB dB dB dB dB
Temperature Coefficient of Frequency	TC _f		-30		ppm/K

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

- 1. The frequency f_C is defined as the midpoint between the 3dB frequencies.
- 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.
- 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.
- 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@v-torch.com

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