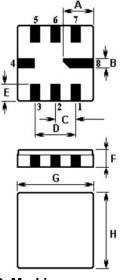


SAW FILTER Part Number : VTF43395

The VTF43395 is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic QCC8C case designed to provide front-end selectivity in 433.920 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen.

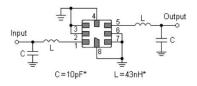
1. Package Dimension (QCC8C)



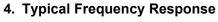
2. Marking VTF 43395 PinConnection1Input2Input Ground5Output6Output Ground3, 7To be Grounded4, 8Case Ground

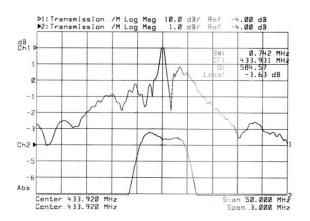
Sign	Data (unit: mm)	Sign	Data (unit: mm) 1.20		
А	2.08	E			
В	0.60	F	1.35		
С	1.27	G	5.00		
D	2.54	н	5.00		

3. Test Circuit



Laser Marking







5. Performance

5-1. Maximum Ratings

Rating	Value	Unit	
Input Power Level	Pin	10	dBm
DC Voltage	V _{DC}	12	V
Storage Temperature Range	$T_{\rm stg}$	-40 to +85	°C
Operating Temperature Range	TA	-10 to +60	°C

5-2. Electronic Characteristics

Characteristic			Minimum	Typical	Maximum	Unit
Center Frequency (center frequency between 3dB points)		f _C		433.920		MHz
Insertion Loss		IL	-	3.5	5.0	dB
3dB Pass band		BW ₃		600	900	kHz
Rejection	at f _c -21.4MHz (Image)		40	50		dB
	at f _c -10.7MHz (LO)		20	30	R-stri Segret	
	Ultimate			60		
Temperature	Turnover Temperature	To	25		55	°C
	Turnover Frequency	fo		fc		MHz
	Frequency Temperature Coefficient	FTC		0.032		ppm/°C2
Frequency Aging Absolute Value during the First Year		fA		10		ppm/yr

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

- 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≤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.
- 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_c , may be calculated from: $f = f_0 [1 FTC (T_0 T_c)^2]$.
- 6. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- 7. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
- 8. 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.
- 9. For questions on technology, prices and delivery, please contact our sales offices or e-mail info@vtorch.ca