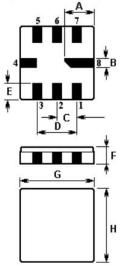


SAW FILTER Part Number : VTF43315

The VTF43315 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.





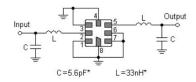
2. Marking VTF

43315

Pin	Connection		
1	Input Ground		
2	Input		
5	Output		
6	Output Ground		
3, 7	to be Grounded		
4, 8	Case Ground		

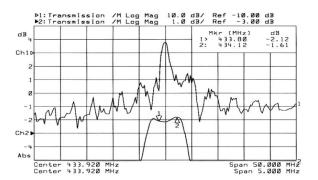
Sign Data (unit: mm)		Sign	Data (unit: mm)		
А	2.08	E	1.20		
В	0.60	F	1.35		
С	1.27	G	5.00		
D	2.54	н	5.00		

3. Test Circuit



Laser Marking

4. Typical Frequency Response





5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P 10		dBm
DC Voltage	V _{DC}	0	V
Storage Temperature Range	T_{stg}	-45 to +120	°C
Operating Temperature Range	TA	-45 to +120	°C

5-2. Electronic Characteristics

Reference temperature: T A = -45 \cdots . +95 ° C

Characteristic		Minimum	Typical	Maximum	Unit
Center Frequency (center frequency between 3dB points)	f _C		433.920		MHz
Insertion Loss 433.80 434.12 MHz	IL		2.0	4.0	dB
3dB Pass bandwidth (relative to IL)	BW_3	670	730	790	kHz
Passband (relative to <i>IL</i>) 433.76 434.08 MHz 433.74 434.10 MHz 433.68 434.16 MHz		-	1.0 1.0 1.5	2.0 3.0 6.0	dB dB dB
Relative Attenuation (relative to <i>IL</i>) 10.00 414.00 MHz 414.00 428.00 MHz 428.00 432.84 MHz 434.92 442.00 MHz 442.00 550.00 MHz 550.001000.00 MHz		45 35 15 10 35 45	50 40 20 15 40 50		dB dB dB dB dB dB

(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. 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