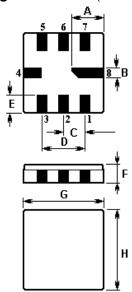


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The ACTF4003/433.92/QCC8C is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic QCC8C case, designed to provide front-end selectivity in 433.920 MHz receivers. Receiver designs using this filter include superhet with 10.7 MHz or 500 kHz IF, direct conversion and superregen.

1.Package Dimension (QCC8C)

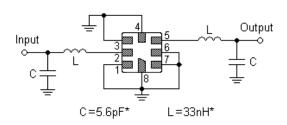


2.

	•			
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)	
Α	2.08	Е	1.20	
В	0.60	F	1.35	
С	1.27	G	5.00	
D	2.54	Н	5.00	

3. Test Circuit



In keeping with our ongoing policy of product evolvement and improvement, the above specification is subject to change without notice.

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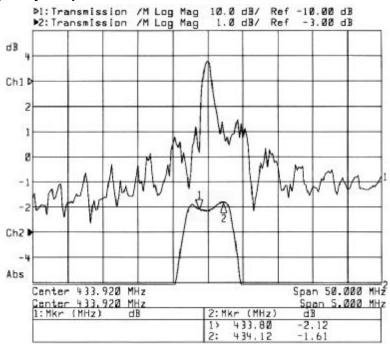


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4. Typical Frequency Response



5.Performance

5-1.Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	0	VDC
Operating Temperature	-45 to +120	°C
Storage Temperature	-45 to +120	°C
Soldering Temperature	+235	°C

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5-2. Electronic Characteristics

Reference temperature: $T_A = -45 \dots +95 \text{ °C}$

Characteristic		Minimum	Typical	Maximum	Units
Centre Frequency (Centre frequency between 3dB points)	f _C		433.920		MHz
Minimum insertion Loss 433.80 434.12 MHz	<i>IL</i> _{min}		2.0	4.0	dB
3dB Pass bandwidth (relative to ILmin)	BW_3	670	730	790	kHz
Pass band (relative to <i>IL</i> _{min}) 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> _{min}) 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

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

- 1. The frequency $f_{\mathbb{C}}$ 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 50 Ω test system with VSWR≤1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter centre 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.

In keeping with our ongoing policy of product evolvement and improvement, the above specification is subject to change without notice.

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