

Tel: +44 118 979 1238 Fax: +44 118 979 1283

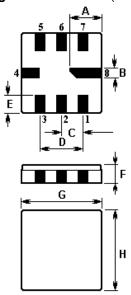
Email: info@actcrystals.com

Issue: 1 C1

Date: SEPT 04

The **ACTF4006/433.92/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)

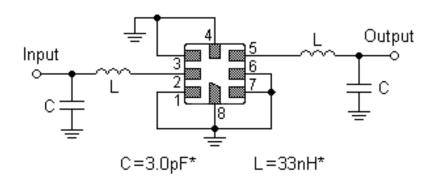


2.

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.

ISO9001: 2000 Registered - Registration number 6830/2

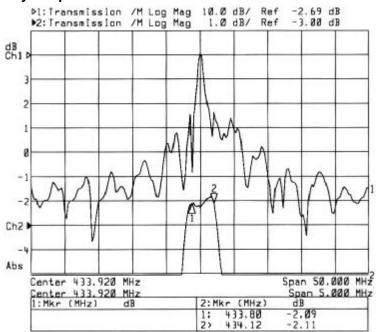
For quotations or further information please contact us at:

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4.Typical Frequency Response



5.Performance

5-1.Maximum Ratings

Rating	Value	Units	
Input Power Level	10	dBm	
DC Voltage	12	VDC	
Operating Temperature	-40 to +85	°C	
Storage Temperature	-40 to +85	°C	
Soldering Temperature	+235	°C	

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5-2. Electronic Characteristics

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	IL_{min}		2.5	4.0	dB
3dB Pass bandwidth (relative to IL _{min})	BW ₃	500		750	kHz
Pass band (relative to IL _{min}) 433.76 434.08 MHz 433.74 434.10 MHz 433.68 434.16 MHz		 	 	2.0 3.0 6.0	дВ дВ дВ
Relative attenuation (relative to IL _{min}) 414.00 428.00 MHz 428.00 432.84 MHz 434.92 442.00 MHz 442.00 550.00 MHz		40 15 10 33	45 25 20 38	 	dB dB dB dB

! 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 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.

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