

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

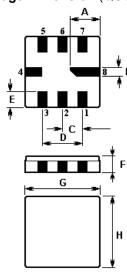
Issue: 1.1 C1

Date: March 2010

Email: info@actcrystals.com

The ACTF4015/446.0/QCC8C is a compact and economical surface-acoustic wave ( SAW) filter in a surface-mount ceramic QCC8C package intended for use in Mobile Radio ( FRS & PMR ) applications,

# 1.Package Dimension (QCC8C)

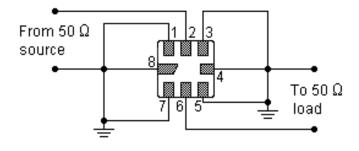


### 2,

Pin	Configuration		
2	Input / Output		
6	Output / Input		
1,3,5,7	To be Grounded		
4,8	Case Ground		

Sign	Data (unit: mm)	nit: mm) Sign Data (unit: m	
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

For quotations or further information please contact us at: 3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

http://www.actcrystals.com



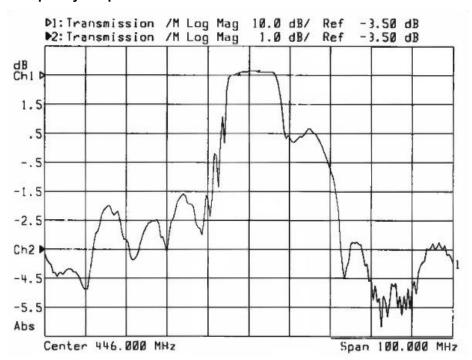
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## 4. Typical Frequency Response



#### 5.Performance

5-1.Maximum Ratings

Rating	Value	Unit
CW RF Power Dissipation	10	dBm
DC Voltage	12	V
Operable temperature range	-10 to +65	°C
Storage temperature range	-40 to +85	°C

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#### 5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Unit
Centre Frequency	f <sub>C</sub>		446.000		MHz
User Signal Band	BW		±3.0		MHz
Insertion Loss f <sub>C</sub> ±3.0MHz	IL		3.5	5.0	dB
Absolute Attenuation $ \begin{array}{ccccccccccccccccccccccccccccccccccc$		40 45	48 55		dB
Ripple f <sub>C</sub> ±3.0MHz	Δα		2.0		dB
Input / Output Impedance (Nominal)		50Ω//0pF			

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

- The frequency f<sub>C</sub> 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. The test fixture L and C are adjusted for minimum insertion loss at the filter centre frequency, fc. Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
- Unless noted otherwise, specifications apply over the entire specified operating temperature range.
  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.