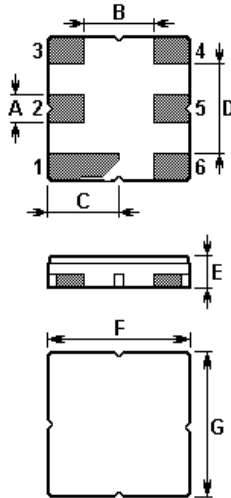


The **ACTF8008/869.0/DCC6C** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **DCC6C** case for wireless audio application. It provides for a low amplitude ripple and high image frequency suppression.

### 1.Package Dimensions (DCC6C)

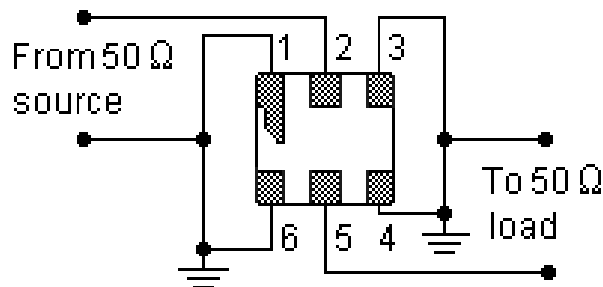


### 2.

Pin	Configuration
2	Input / Output
5	Output / Input
1,3,4,6	Case Ground

Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	0.6	E	1.1
B	1.5	F	3.0
C	1.5	G	3.0
D	1.8		

### 3.Test Circuit



In keeping with our ongoing policy of product evolution 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:**

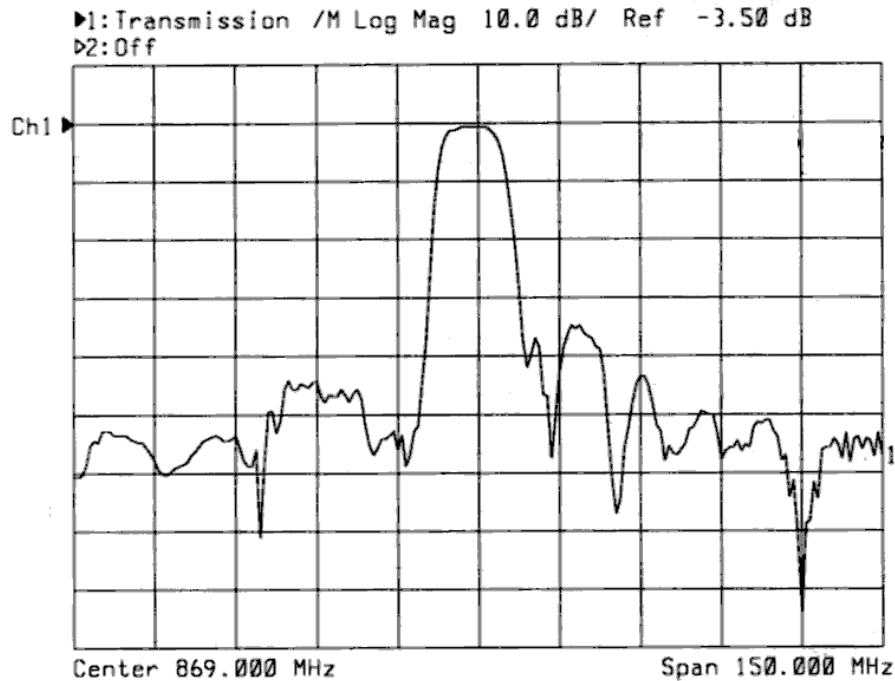
**3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK**

<http://www.actcrystals.com>

Issue : 1 C1

Date : SEPT 04

## 4. Typical frequency response



## 5. Performance

### 5-1. Maximum Ratings

Rating	Value	Units
Input Power Level	10	dBm
DC Voltage	12V	V
Storage Temperature Range	-40 to +85	°C
Operating Temperature Range	-10 to +60	°C

In keeping with our ongoing policy of product evolution 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:**

**3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK**

<http://www.actcrystals.com>

Issue : 1 C1

Date : SEPT 04

## 5-2. Electronic Characteristics

Item	Specifications
Nominal Centre Frequency ( $f_c$ )	869.000 MHz
Insertion Loss Within $f_c \pm 1.0$ MHz	4.5dB max.
Absolute Attenuation 1) Within 825 ... 828 MHz 2) Within 845 ... 849 MHz 3) Within 889 ... 892 MHz 4) Within 910 ... 913 MHz	40dB min. 35dB min. 35dB min. 40dB min.
Ripple Deviation Within $f_c \pm 1.0$ MHz	1.5dB max.
Input / Output Impedance (Nominal)	50 $\Omega$

### 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 50  $\Omega$  test system with VSWR  $\leq 1.2:1$ . 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 evolution 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:**

**3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK**

<http://www.actcrystals.com>

Issue : 1 C1

Date : SEPT 04