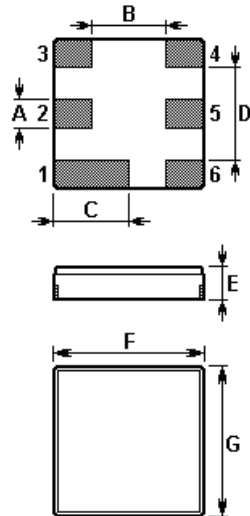


The **ACTF9118-F915TA-DCC6C** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **DCC6C** case for cordless telephone. It provides low insertion loss and high attenuation.

### 1. Package Dimension (DCC6C)



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

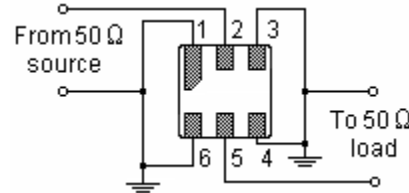
| Sign | Data (unit: mm) | Sign | Data (unit: mm) |
|------|-----------------|------|-----------------|
| A    | 0.6             | E    | 1.1             |
| B    | 1.5             | F    | 3.0             |
| C    | 1.5             | G    | 3.0             |
| D    | 1.8             |      |       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

### 2. Marking

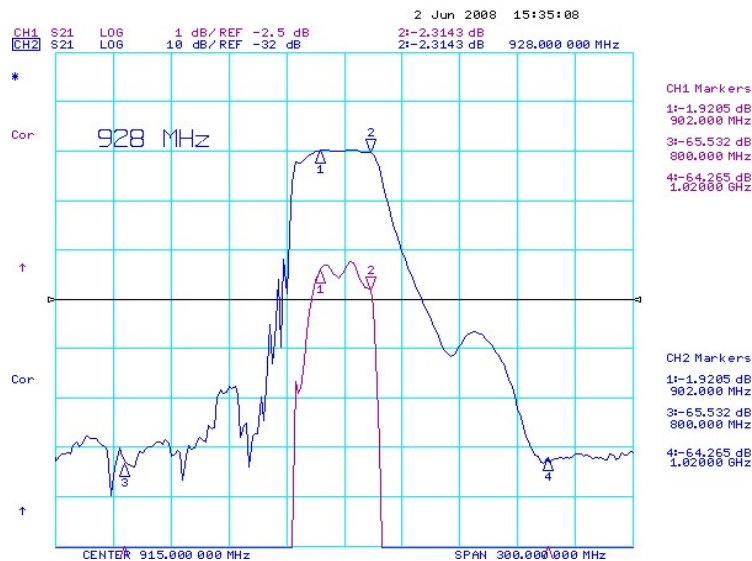


Laser Printing, Top View

### 3. Matching Circuit



### 4. Typical Frequency Response



In line with our ongoing policy of product evolution and improvement, the above specification may subject to change without notice

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

<http://www.actcrystals.com>

## 5. Performance

### 5-1. Maximum Ratings

| Rating                     |           | Value      | Unit |
|----------------------------|-----------|------------|------|
| Input Power Level          | $P$       | 20         | dBm  |
| DC Voltage                 | $V_{DC}$  | 12         | V    |
| Operable Temperature Range | $T_A$     | -40 to +85 | °C   |
| Storage Temperature Range  | $T_{stg}$ | -40 to +85 | °C   |

### 5-2. Electronic Characteristics

| Characteristic                     |                        | Minimum | Typical | Maximum | Unit     |
|------------------------------------|------------------------|---------|---------|---------|----------|
| Nominal Center Frequency           | $f_c$                  | --      | 915.000 | --      | MHz      |
| Usable Pass Bandwidth              | $BW$                   | --      | 26      | --      | MHz      |
| Insertion Loss                     | $IL$                   | --      | 2.3     | 3.5     | dB       |
|                                    | 902.00 .... 928.00 MHz |         |         |         |          |
| Inband Ripple                      | $\Delta\alpha$         | --      | 0.8     | 1.2     | dB       |
|                                    | 902.00 .... 928.00 MHz |         |         |         |          |
| Absolute Attenuation               | $\alpha$               |         |         |         |          |
|                                    | DC .... 800.00 MHz     | 45      | 58      | --      | dB       |
|                                    | 800.00 .... 865.00 MHz | 40      | 48      | --      | dB       |
|                                    | 975.00 .... 1020.0 MHz | 30      | 40      | --      | dB       |
|                                    | 1020.0 .... 2000.0 MHz | 45      | 58      | --      | dB       |
| Input / Output Impedance (Nominal) |                        | 50      |         |         | $\Omega$ |

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

#### NOTE:

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 $\leq$ 2.2:1.
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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