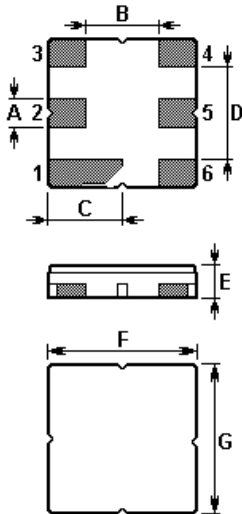


The **ACTF00038/947.50/DCC6C** is a low-loss, wide band **SAW filter** in a surface-mount ceramic **DCC6C** case for GSM Tx etc.

1. Package Dimension (DCC6C)

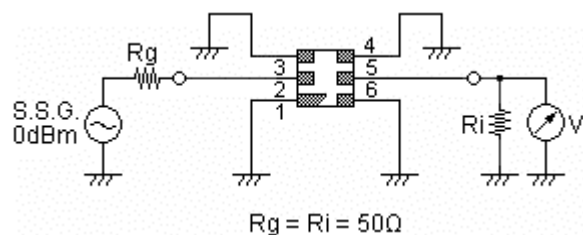


2.

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

| Sign | Data (unit: mm) | Sign | Data (unit: mm) |
|------|-----------------|------|-----------------|
| A | 1.9 | E | 1.2 |
| B | 0.64 | F | 3.8 |
| C | 1.0 | G | 3.8 |
| D | 1.27 | | |

3. Matching Circuit



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

ISO9001: 2000 Registered

For quotations or further information please contact us at:

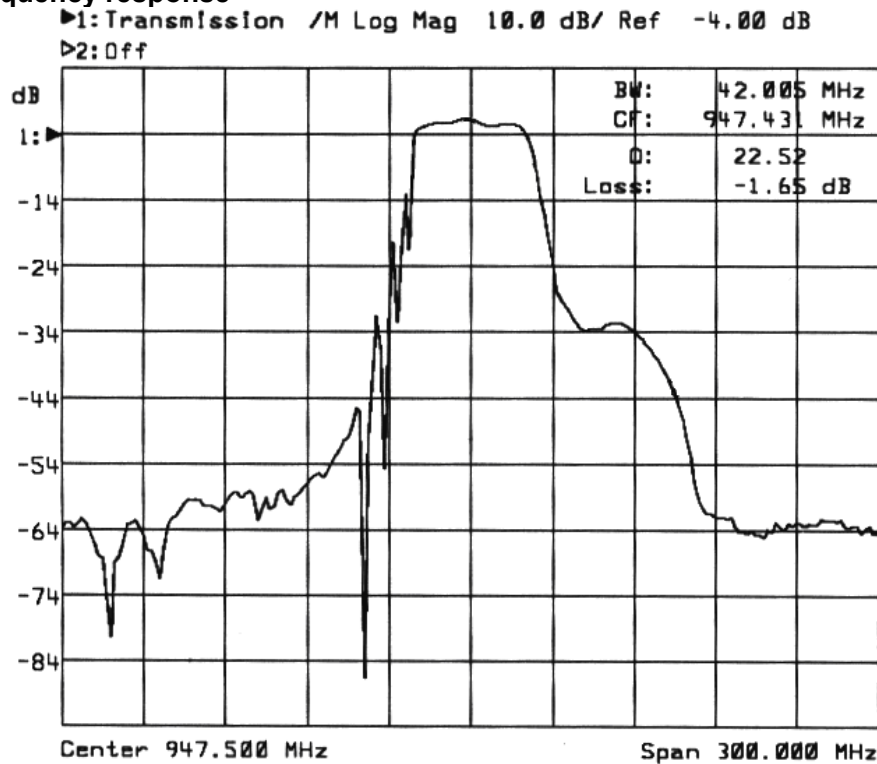
3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

<http://www.actcrystals.com>

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Date : March 2010

4. Typical frequency response



5. Performance

5-1. Maximum Ratings

| Rating | | Value | Unit |
|-----------------------------|-----------|------------|------|
| Input Power Level | P_{IN} | 10 | dBm |
| DC Voltage | V_{DC} | 12 | V |
| Storage Temperature Range | T_{stg} | -40 to +85 | °C |
| Operating Temperature Range | T_A | -10 to +65 | °C |

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5-2.Electronic Characteristics

| Parameter | Minimum | Typical | Maximum | Unit |
|--|----------------------|----------------------|----------------------|----------|
| Centre Frequency f_c | -- | 947.500 | -- | MHz |
| 3dB Bandwidth BW_3 | -- | ±21 | -- | MHz |
| Usable Bandwidth BW_{USE} | -- | ±15 | -- | MHz |
| Insertion Loss 932.50 MHz 962.50 MHz IL | -- | 2.7 | 3.6 | dB |
| Amplitude Variation (p-p) 932.50 MHz 962.50 MHz $\Delta \alpha$ | -- | 1.0 | 1.8 | dB |
| Absolute Attenuation DC 885.00 MHz 885.00 MHz 915.00 MHz 990.00 MHz 1050.0 MHz 1050.0 MHz 2000.0 MHz α | 45 18 20 48 | 54 25 28 58 | -- -- -- -- | dB |
| Input / Output Impedance | 50 | | | Ω |

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 Ω 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.

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