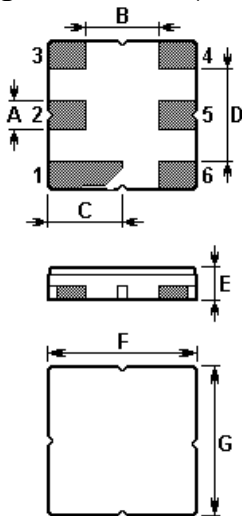


The **ACTF00038/947.50/DCC6C** is a low-loss, wide band **SAW filter** in a surface-mount ceramic **DCC6C** case for GSM Tx etc.

### 1. Package Dimension (DCC6C)

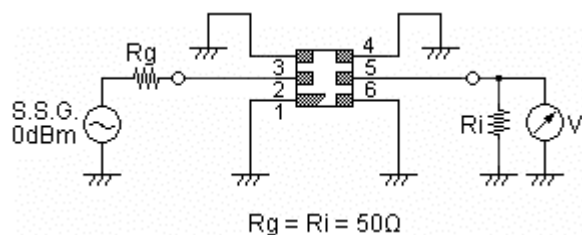


### 2.

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 - Registration number 6830/2**

**For quotations or further information please contact us at:**

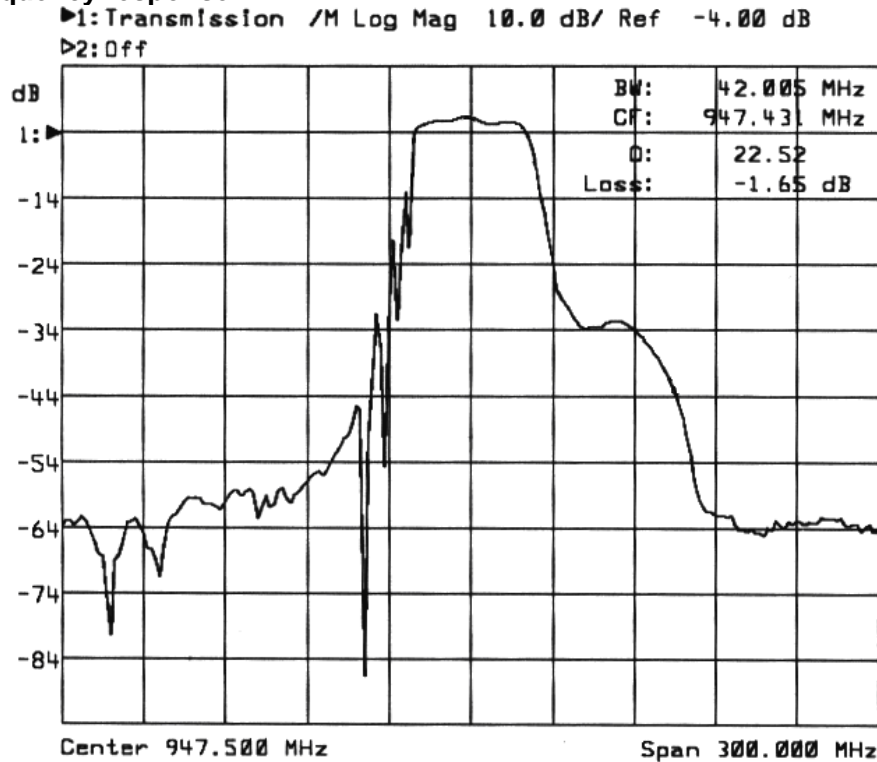
**3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK**

<http://www.actcrystals.com>

Issue : 1 C1

Date : SEPT 04

#### 4. Typical frequency response



#### 5. Performance

##### 5-1. Maximum Ratings

Rating		Value	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 $BW_3$	--	$\pm 21$	--	MHz
Usable Bandwidth $BW_{USE}$	--	$\pm 15$	--	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 $\alpha$	45 18 20 48	54 25 28 58	-- -- -- --	dB
Input / Output Impedance	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.

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