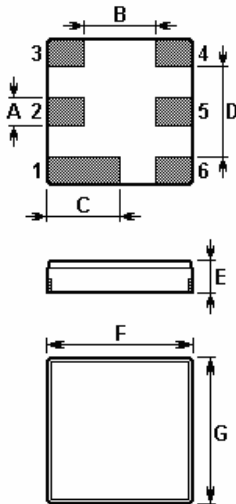


The **ACT-F9081-1747.5-DCC6C** is a low-loss, compact, and economical surface-acoustic-wave (SAW) RF filter in a surface-mount ceramic **DCC6C** case for mobile telephone PCN system.

1. Package Dimensions (DCC6C)



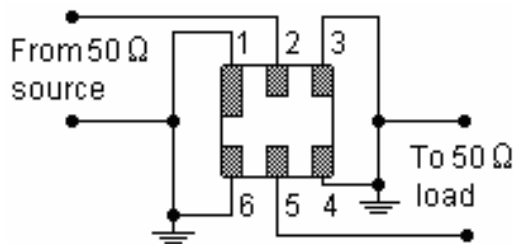
Pin	Configuration
2	Input
5	Output
1, 3, 4, 6	Case Ground

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 Marking

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

For quotations or further information please contact us at:

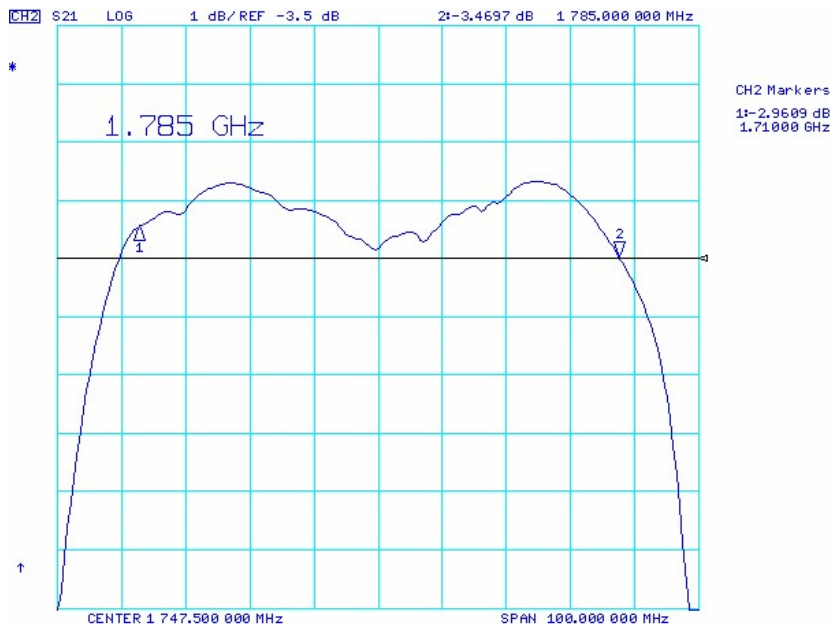
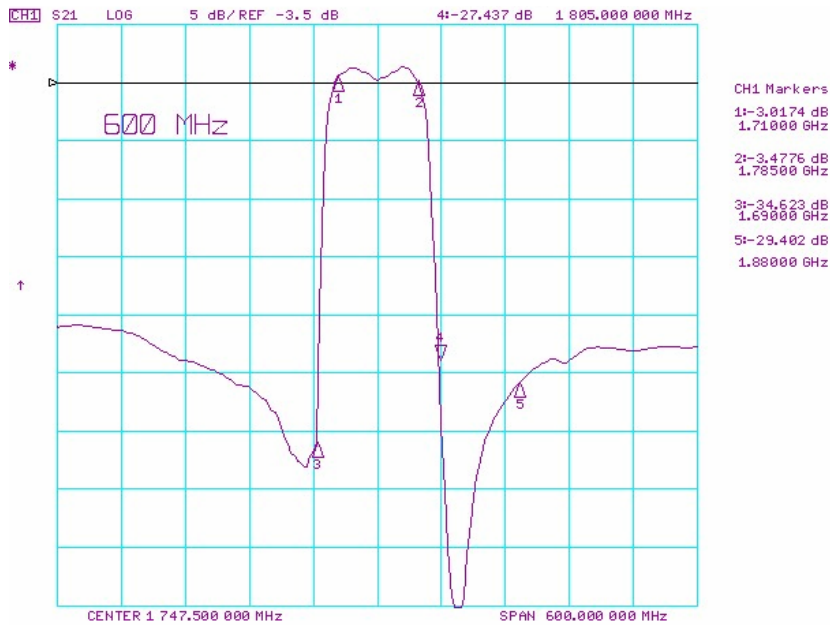
3 The Business Centre, Molly Millars Lane, Wokingham, Berks, RG41 2EY, UK

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4. Typical Frequency Response



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 Date : SEPT 06

5. Performance

5-1. Maximum Ratings

Rating	Value	Unit
Input Power max. 1710 ... 1785MHz P_{IN}	5	dBm
Elsewhere	0	dBm
DC Voltage V_{DC}	0	V
Operable Temperature Range T_A	-20 to +70	°C
Storage Temperature Range T_{stg}	-40 to +85	°C

5-2. Electronic Characteristics

Operating temperature range: $T = 25 + - 2^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50\Omega$

Terminating load impedance: $Z_L = 50\Omega$

Characteristic	Minimum	Typical	Maximum	Unit
Centre Frequency f_C	--	1747.50	--	MHz
Insertion Loss 1710.0 1785.0 MHz IL	--	3.5	4.0	dB
Absolute Attenuation α				
10.0 1670.0 MHz	15	20	--	dB
1670.0 1690.0 MHz	15	25	--	dB
1805.0 1880.0 MHz	15	20	--	dB
1880.0 4500.0 MHz	20	25	--	dB
4500.0 5200.0 MHz	10	19	--	dB
Amplitude Ripple (p-p) 1710.0 1785.0 MHz $\Delta\alpha$	--	1.3	2.0	dB
Input / Output Impedance (Nominal)	50			Ω

ⓘ 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 Ω test system with VSWR \leq 1.2:1.
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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