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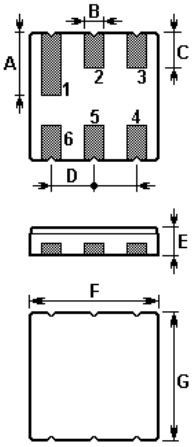
The **ACTF9007/903.650/DCC6** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) filter in a surface-mount ceramic **DCC6** case. It is designed as an RF filter for cordless telephone CT ISM. Centre frequency is 903.650 MHz.

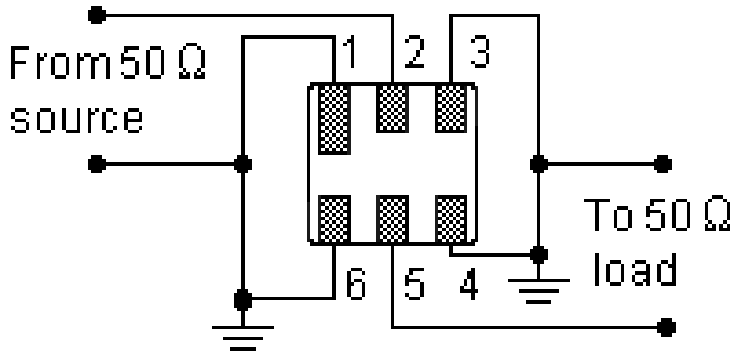
1.Package Dimension (DCC6)



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.Test Circuit



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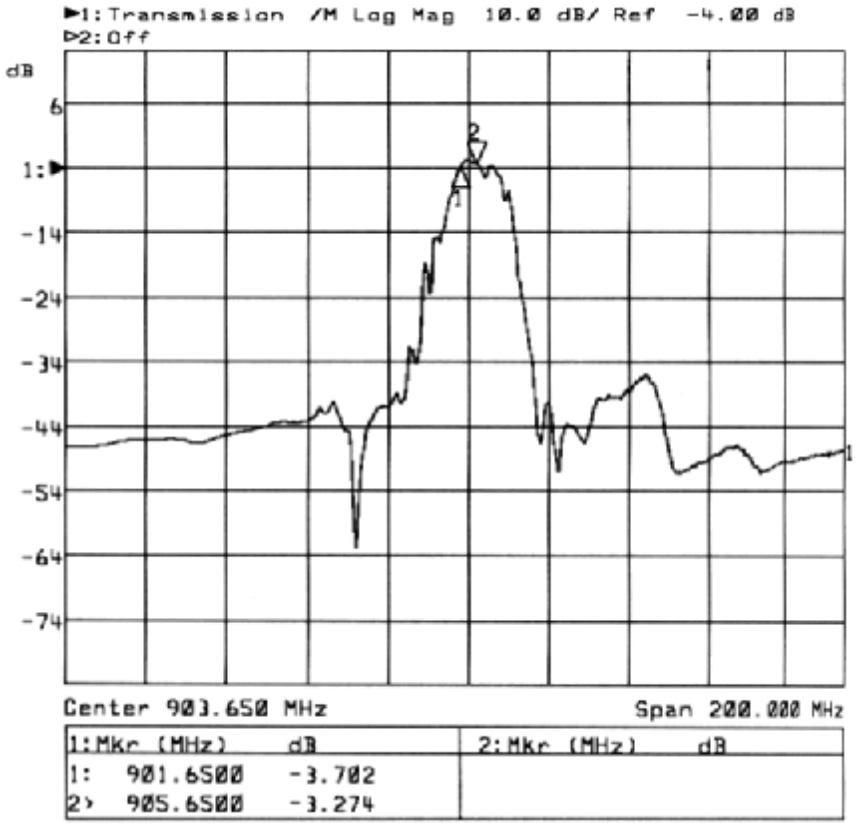
4.Typical Frequency Response



5. Performance

5-1.Maximum Ratings

Rating	Value	Units
CW RF Power Dissipation	0	dBm
DC Voltage Between Any Two Pins	5	V
Operating Temperature	-10 to +50	°C
Case Temperature	-40 to +85	°C
Soldering Temperature	+235	°C

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5-2.Electronic Characteristics

Reference temperature: T_A =25 °C

Characteristic		Min.	Typ.	Max.	Units
Centre frequency	f_C	--	903.650	--	MHz
Insertion Loss within f_C±2.0MHz	IL	--	4.0	5.5	dB
Pass band	BW	--	±2.0	--	MHz
Amplitude ripple (p-p) within f_C±2.0MHz		--	1.0	2.0	dB
Absolute attenuation within 803.65 MHz …. 878.65 MHz within 923.65 MHz …. 958.65 MHz within 958.65 MHz …. 1003.65 MHz		 32 25 35	 40 35 45	 -- -- --	 dB dB dB
Input / Output Impedance (Nominal)		--	50	--	Ω

CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

1. 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 ≤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.
2. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
3. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
4. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
5. 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.