

### [IC information]

Manufacture	LAPIS Technology
Series/Product	ML62Q1000
Type/Device Code	L62Q1577

### [Specification of Resonator]

Model	DST1610A
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80kΩ max.

### [Measurement Results]

Oscillation mode: Standard

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-560kΩ
Drive Level	0.1μW
Frequency Deviation	+5ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-560kΩ
Drive Level	0.1μW
Frequency Deviation	+7ppm

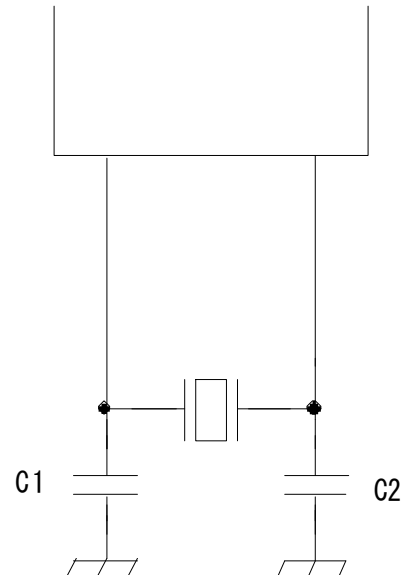
Measurement Results are for Reference only.

Therefore, it is necessary to conduct a survey on your board.

If you have any questions about circuit survey, please contact us by the following e-mail.

[circuitanalysis797@kds.info](mailto:circuitanalysis797@kds.info)

### [Oscillation Diagram]



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### [Specification of Resonator]

Model	DST1610A
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80k $\Omega$ max.

### [Measurement Results]

Oscillation mode:Low power

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-430k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-10ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-430k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-11ppm

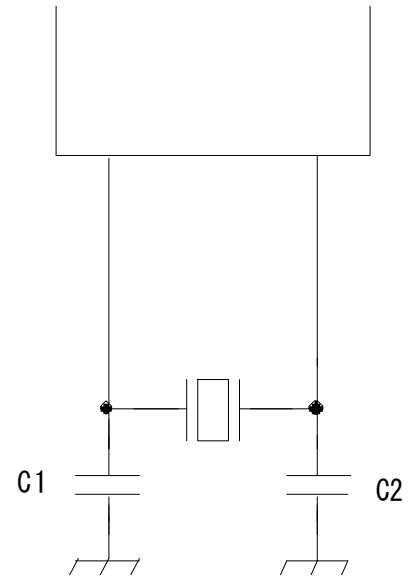
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Series Resistance	80kΩ max.下

### [Measurement Results]

Oscillation mode:Tough

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-1000kΩ
Drive Level	0.1μW
Frequency Deviation	+70ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-1000kΩ
Drive Level	0.1μW
Frequency Deviation	+78ppm

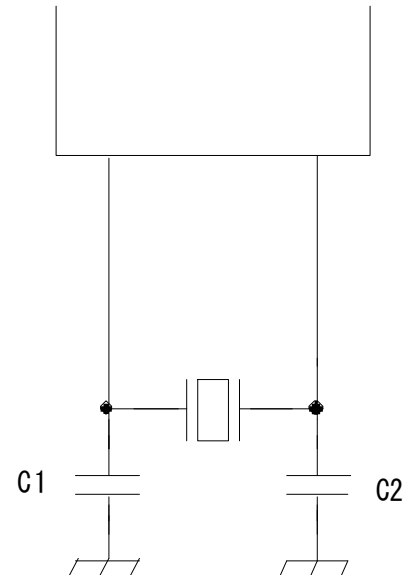
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### [Oscillation Diagram]



### [IC information]

Manufacture	LAPIS Technology
Series/Product	ML62Q1000
Type/Device Code	L62Q1577

### [Specification of Resonator]

Model	DST310S
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80k $\Omega$ max.

### [Measurement Results]

Oscillation mode:Low power

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-430k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-21ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-430k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-20ppm

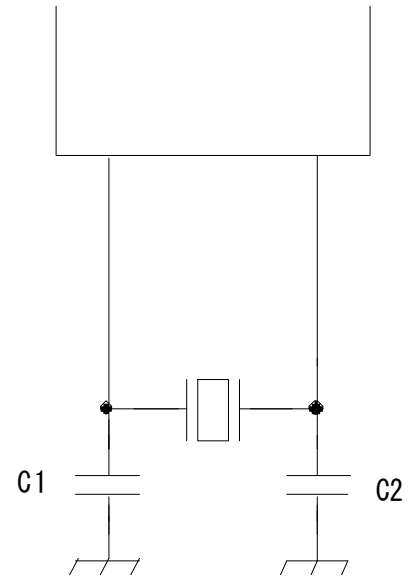
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### [Oscillation Diagram]



### [IC information]

Manufacture	LAPIS Technology
Series/Product	ML62Q1000
Type/Device Code	L62Q1577

### [Specification of Resonator]

Model	DST310S
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80k $\Omega$ max.

### [Measurement Results]

Oscillation mode:Standard

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-470k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-8ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-470k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-7ppm

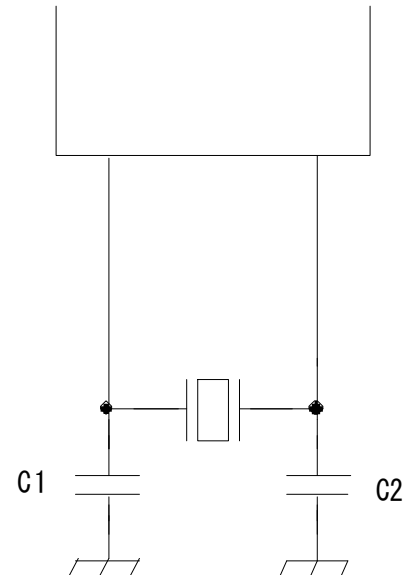
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Model	DST310S
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80k $\Omega$ max.

### [Measurement Results]

Oscillation mode:Tough

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-820k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	+27ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-820k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	+32ppm

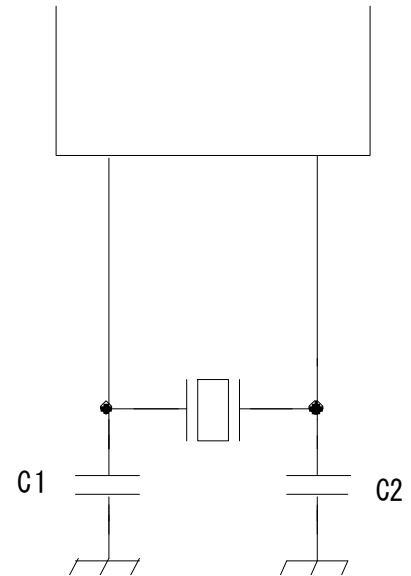
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### [Oscillation Diagram]



### [IC information]

Manufacture	LAPIS Technology
Series/Product	ML62Q1000
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### [Specification of Resonator]

Model	DT-26
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	40kΩ max.

### [Measurement Results]

Oscillation mode:Low power

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-430kΩ
Drive Level	0.1μW
Frequency Deviation	-7ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-430kΩ
Drive Level	0.1μW
Frequency Deviation	-12ppm

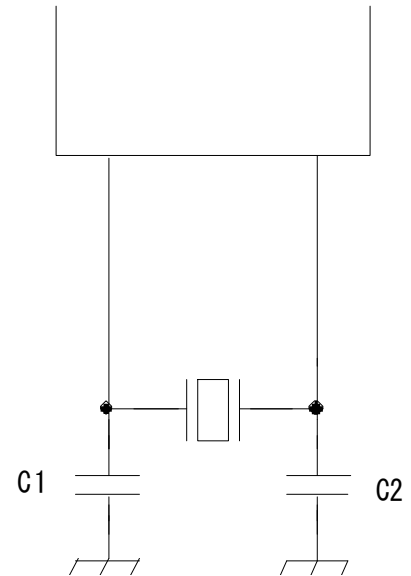
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### [Specification of Resonator]

Model	DT-26
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	40k $\Omega$ max.

### [Measurement Results]

Oscillation mode: Standard

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-510k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-3ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-510k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	-2ppm

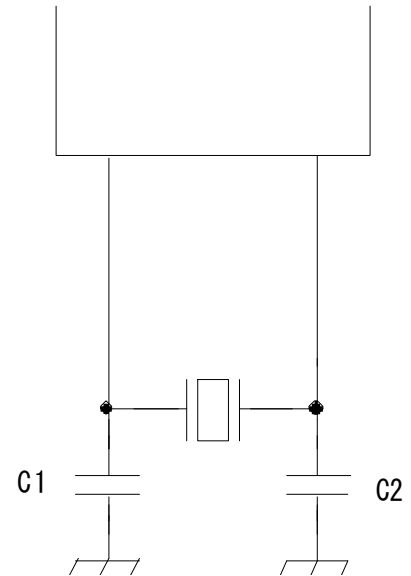
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Model	DT-26
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	40k $\Omega$ max.

### [Measurement Results]

Oscillation mode:Tough

C1=10pF, C2=10pF, VDD=+3.0V

Negative Resistance	-820k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	+17ppm

C1=10pF, C2=10pF, VDD=+5.0V

Negative Resistance	-820k $\Omega$
Drive Level	0.1 $\mu$ W
Frequency Deviation	+21ppm

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