

[IC information]

Manufacture	LAPIS Technology
Series/Product	ML62Q2000
Type/Device Code	L62Q27**

[Specification of Resonator]

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

[Measurement Results]

Oscillation mode:Ultra Low power

C1=12pF, C2=12pF, VDD=+3.3V

Negative Resistance	-330kΩ
Drive Level	0.1μW
Frequency Deviation	-6ppm

C1=12pF, C2=12pF, VDD=+5.5V

Negative Resistance	-330kΩ
Drive Level	0.1μW
Frequency Deviation	-5ppm

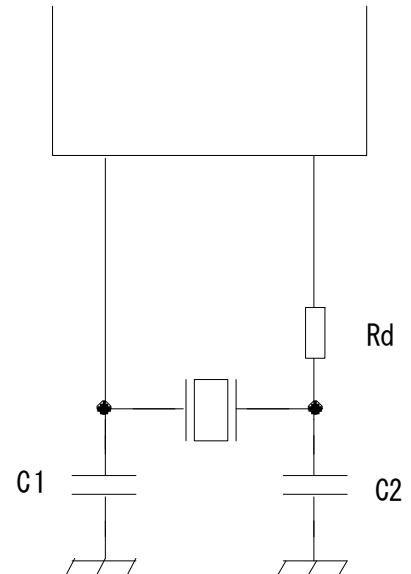
Measurement Results are for Reference only.

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-maill.

circuitanalysis797@kds.info

[Oscillation Diagram]



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Series Resistance	80kΩmax.

[Measurement Results]

Oscillation mode:Low power

C1=12pF, C2=12pF, VDD=+3.3V

Negative Resistance	-510kΩ
Drive Level	0.2μW
Frequency Deviation	-13ppm

C1=12pF, C2=12pF, VDD=+5.5V

Negative Resistance	-510kΩ
Drive Level	0.2μW
Frequency Deviation	-15ppm

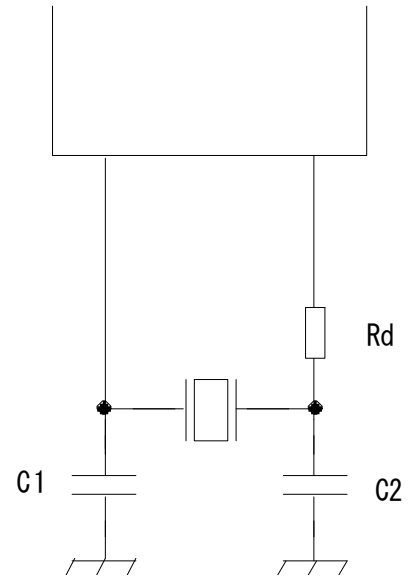
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Series Resistance	80kΩmax.

[Measurement Results]

Oscillation mode:Standard

C1=12pF, C2=12pF, VDD=+3.3V

Negative Resistance	-910kΩ
Drive Level	0.2μW
Frequency Deviation	-14ppm

C1=12pF, C2=12pF, VDD=+5.5V

Negative Resistance	-910kΩ
Drive Level	0.2μW
Frequency Deviation	-8ppm

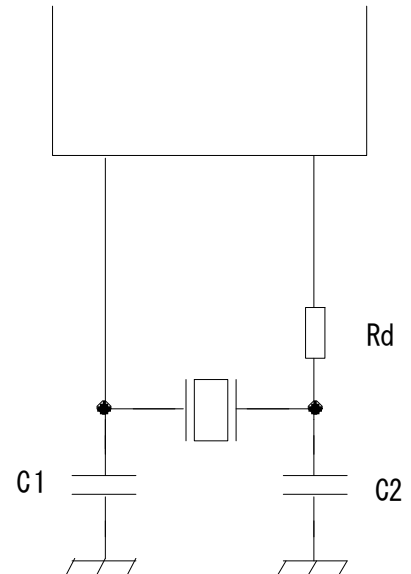
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[Specification of Resonator]

Model	DST1610A
Nominal Frequency	32.768kHz
Load Capacitance	9.0pF
Series Resistance	80kΩmax.

[Measurement Results]

Oscillation mode:Tough

C1=22pF, C2=22pF, VDD=+3.3V

Negative Resistance	-620kΩ
Drive Level	0.3μW
Frequency Deviation	-20ppm

C1=22pF, C2=22pF, VDD=+5.5V

Negative Resistance	-620kΩ
Drive Level	0.3μW
Frequency Deviation	-20ppm

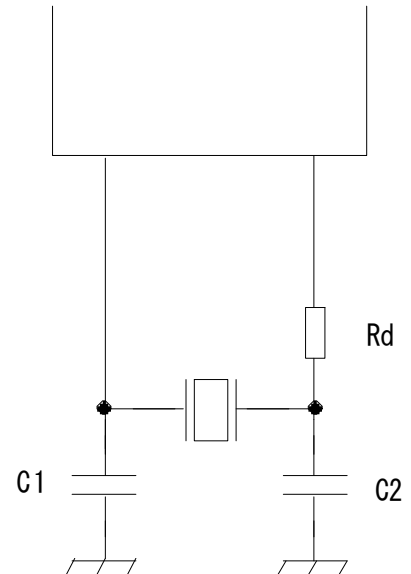
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[Oscillation Diagram]



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Manufacture	LAPIS Technology
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[Specification of Resonator]

Model	DT-26
Nominal Frequency	32.768kHz
Load Capacitance	12.5pF
Series Resistance	40kΩmax.

[Measurement Results]

Oscillation mode:Ultra Low power

C1=22pF, C2=22pF, VDD=+3.3V

Negative Resistance	-270kΩ
Drive Level	0.1μW
Frequency Deviation	+2ppm

C1=22pF, C2=22pF, VDD=+5.5V

Negative Resistance	-270kΩ
Drive Level	0.2μW
Frequency Deviation	+2ppm

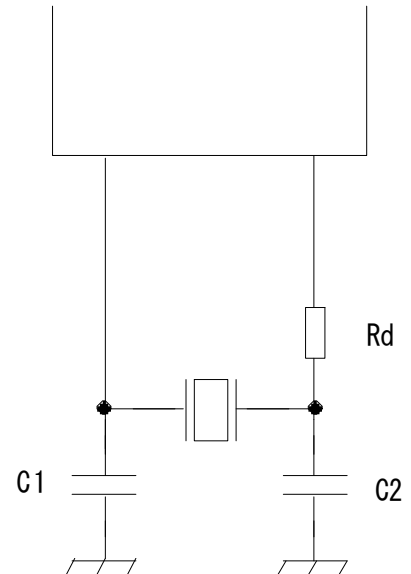
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[Specification of Resonator]

Model	DT-26
Nominal Frequency	32.768kHz
Load Capacitance	12.5pF
Series Resistance	40kΩmax.

[Measurement Results]

Oscillation mode:Low power

C1=22pF, C2=22pF, VDD=+3.3V

Negative Resistance	-270kΩ
Drive Level	0.1μW
Frequency Deviation	+5ppm

C1=22pF, C2=22pF, VDD=+5.5V

Negative Resistance	-270kΩ
Drive Level	0.2μW
Frequency Deviation	+3ppm

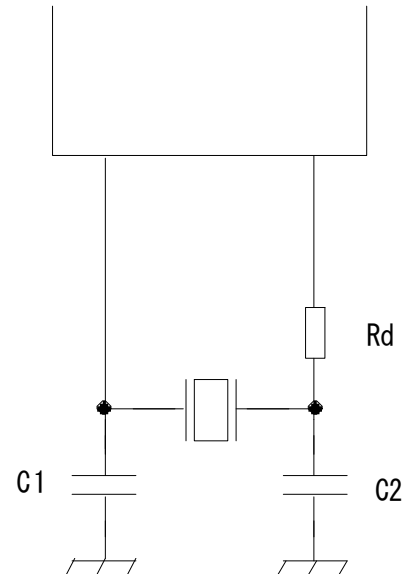
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Load Capacitance	12.5pF
Series Resistance	40kΩmax.

[Measurement Results]

Oscillation mode:Standard

C1=22pF, C2=22pF, VDD=+3.3V

Negative Resistance	-360kΩ
Drive Level	0.2μW
Frequency Deviation	+4ppm

C1=22pF, C2=22pF, VDD=+5.5V

Negative Resistance	-430kΩ
Drive Level	0.2μW
Frequency Deviation	+4ppm

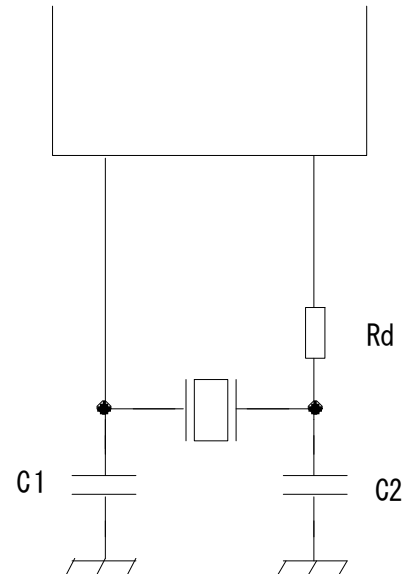
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Load Capacitance	12.5pF
Series Resistance	40kΩmax.

[Measurement Results]

Oscillation mode:Tough

C1=22pF, C2=22pF, VDD=+3.3V

Negative Resistance	-680kΩ
Drive Level	0.2μW
Frequency Deviation	+9ppm

C1=22pF, C2=22pF, VDD=+5.5V

Negative Resistance	-750kΩ
Drive Level	0.2μW
Frequency Deviation	+11ppm

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