

[IC information]

Manufacture	Renesas Electronics
Series/Product	RA/RA0/RA0E1、RA0E2、RA0L1
Type/Device Code	R7F0**

[Specification of Resonator]

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

[Measurement Results]

Oscillation mode: Low power consumption 2

C1=7pF, C2=7pF, VDD=+1.8V

Negative Resistance	-620k Ω
Drive Level	0.1 μ W
Frequency Deviation	+22ppm

C1=7pF, C2=7pF, VDD=+3.3V

Negative Resistance	-620k Ω
Drive Level	0.1 μ W
Frequency Deviation	+22ppm

C1=7pF, C2=7pF, VDD=+5.0V

Negative Resistance	-620k Ω
Drive Level	0.1 μ W
Frequency Deviation	+23ppm

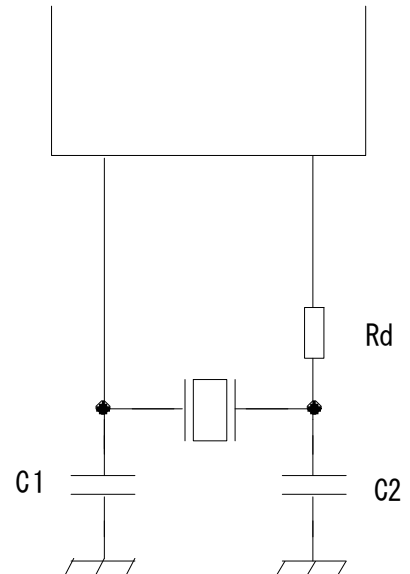
Measurement Results are for Reference only.

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

[Oscillation Diagram]



[IC information]

Manufacture	Renesas Electronics
Series/Product	RA/RA0/RA0E1、RA0E2、RA0L1
Type/Device Code	R7F0**

[Specification of Resonator]

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

[Measurement Results]

Oscillation mode: Low power consumption 1

C1=7pF, C2=7pF, VDD=+1.8V

Negative Resistance	-1000k Ω
Drive Level	0.1 μ W
Frequency Deviation	+13ppm

C1=7pF, C2=7pF, VDD=+3.3V

Negative Resistance	-1000k Ω
Drive Level	0.1 μ W
Frequency Deviation	+14ppm

C1=7pF, C2=7pF, VDD=+5.0V

Negative Resistance	-1000k Ω
Drive Level	0.1 μ W
Frequency Deviation	+15ppm

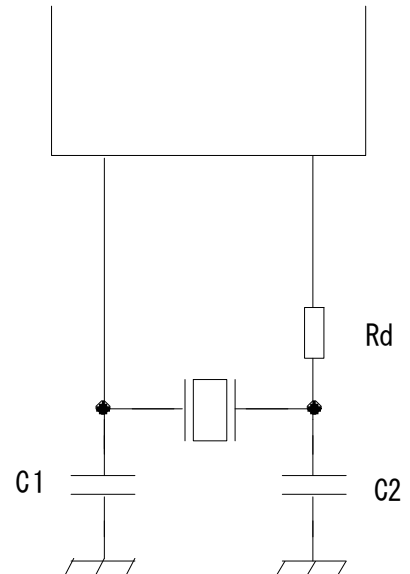
Measurement Results are for Reference only.

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

[Oscillation Diagram]



[IC information]

Manufacture	Renesas Electronics
Series/Product	RA/RA0/RA0E1、RA0E2、RA0L1
Type/Device Code	R7F0**

[Specification of Resonator]

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

[Measurement Results]

Oscillation mode: Standard

C1=7pF, C2=7pF, VDD=+1.8V

Negative Resistance	-1200k Ω
Drive Level	0.1 μ W
Frequency Deviation	+8ppm

C1=7pF, C2=7pF, VDD=+3.3V

Negative Resistance	-1200k Ω
Drive Level	0.1 μ W
Frequency Deviation	+8ppm

C1=7pF, C2=7pF, VDD=+5.0V

Negative Resistance	-1200k Ω
Drive Level	0.1 μ W
Frequency Deviation	+9ppm

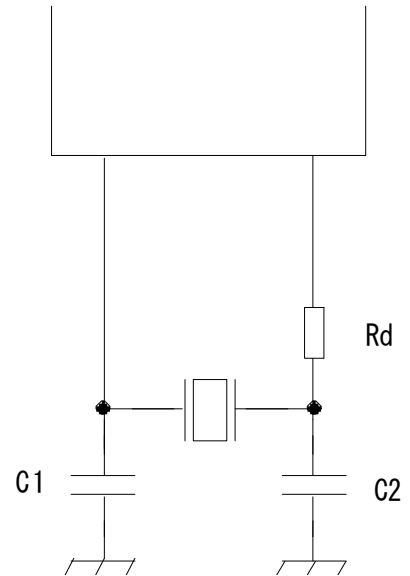
Measurement Results are for Reference only.

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

[Oscillation Diagram]



[IC information]

Manufacture	Renesas Electronics
Series/Product	RA/RA0/RA0E1、RA0E2、RA0L1
Type/Device Code	R7F0**

[Specification of Resonator]

Model	DST310SA
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80k Ω max.

[Measurement Results]

Oscillation mode: Low power consumption 2

C1=7pF, C2=7pF, VDD=+1.8V

Negative Resistance	-620k Ω
Drive Level	0.1 μ W
Frequency Deviation	+18ppm

C1=7pF, C2=7pF, VDD=+3.3V

Negative Resistance	-620k Ω
Drive Level	0.1 μ W
Frequency Deviation	+19ppm

C1=7pF, C2=7pF, VDD=+5.0V

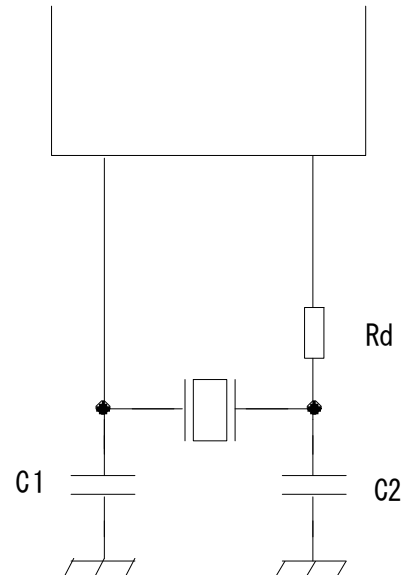
Negative Resistance	-620k Ω
Drive Level	0.1 μ W
Frequency Deviation	+20ppm

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

[Oscillation Diagram]

[IC information]

Manufacture	Renesas Electronics
Series/Product	RA/RA0/RA0E1、RA0E2、RA0L1
Type/Device Code	R7F0**

[Specification of Resonator]

Model	DST310SA
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80k Ω max.

[Measurement Results]

Oscillation mode: Low power consumption 1

C1=7pF, C2=7pF, VDD=+1.8V

Negative Resistance	-1000k Ω
Drive Level	0.1 μ W
Frequency Deviation	+11ppm

C1=7pF, C2=7pF, VDD=+3.3V

Negative Resistance	-1000k Ω
Drive Level	0.1 μ W
Frequency Deviation	+12ppm

C1=7pF, C2=7pF, VDD=+5.0V

Negative Resistance	-1000k Ω
Drive Level	0.1 μ W
Frequency Deviation	+12ppm

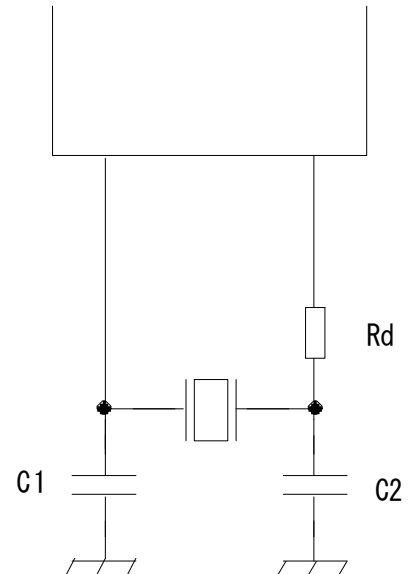
Measurement Results are for Reference only.

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

[Oscillation Diagram]



[IC information]

Manufacture	Renesas Electronics
Series/Product	RA/RA0/RA0E1、RA0E2、RA0L1
Type/Device Code	R7F0**

[Specification of Resonator]

Model	DST310SA
Nominal Frequency	32.768kHz
Load Capacitance	6.0pF
Series Resistance	80k Ω max.

[Measurement Results]

Oscillation mode: Standard

C1=7pF, C2=7pF, VDD=+1.8V

Negative Resistance	-1200k Ω
Drive Level	0.1 μ W
Frequency Deviation	+8ppm

C1=7pF, C2=7pF, VDD=+3.3V

Negative Resistance	-1200k Ω
Drive Level	0.1 μ W
Frequency Deviation	+8ppm

C1=7pF, C2=7pF, VDD=+5.0V

Negative Resistance	-1200k Ω
Drive Level	0.1 μ W
Frequency Deviation	+9ppm

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

[Oscillation Diagram]

