

**[IC information]**

Manufacture	Renesas Electronics
Series/Product	RH850/U2A Series/U2A8
Type/Device Code	R7F702301

**[Specification of Resonator]**

Model	DSX210GE
Nominal Frequency	20.000MHz
Load Capacitance	8.0pF
Series Resistance	150Ω max.

**[Measurement Results]**

C1=OPEN, C2=OPEN, VDD=+3.3V

Negative Resistance	-2000Ω
Drive Level	58μW
Frequency Deviation	+37ppm

C1=OPEN, C2=OPEN, VDD=+5.0V

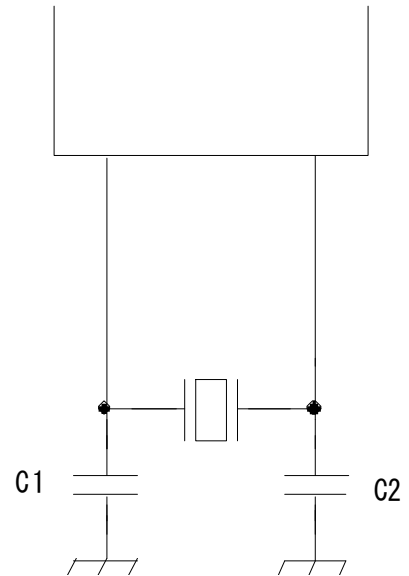
Negative Resistance	-2200Ω
Drive Level	100μW
Frequency Deviation	+31ppm

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]**

**[IC information]**

Manufacture	Renesas Electronics
Series/Product	RH850/U2A Series/U2A8
Type/Device Code	R7F702301

**[Specification of Resonator]**

Model	DSX320GE
Nominal Frequency	20.000MHz
Load Capacitance	8.0pF
Series Resistance	70Ω max.

**[Measurement Results]**

C1=OPEN, C2=OPEN, VDD=+3.3V

Negative Resistance	-2200Ω
Drive Level	68μW
Frequency Deviation	+45ppm

C1=OPEN, C2=OPEN, VDD=+5.0V

Negative Resistance	-2400Ω
Drive Level	119μW
Frequency Deviation	+35ppm

Measurement Results are for Reference only.

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

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**[Oscillation Diagram]**