

[IC information]

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

[Specification of Resonator]

Model	DSX211SH
Nominal Frequency	20.000MHz
Load Capacitance	8.0pF
Series Resistance	100Ω max.

[Measurement Results]

C1=OPEN, C2=OPEN, VDD=+1.8V

Negative Resistance	-910Ω
Drive Level	58μW
Frequency Deviation	+13ppm

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

Negative Resistance	-910Ω
Drive Level	59μW
Frequency Deviation	+13ppm

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

Negative Resistance	-910Ω
Drive Level	62μW
Frequency Deviation	+13ppm

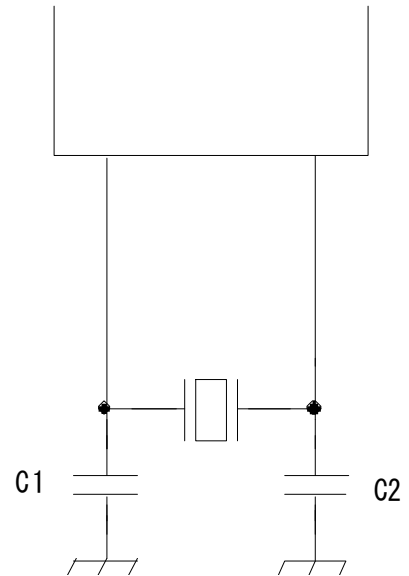
Measurement Results are for Reference only.

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	DSX321G
Nominal Frequency	20.000MHz
Load Capacitance	8.0pF
Series Resistance	60Ω max.

[Measurement Results]

C1=4pF, C2=4pF, VDD=+1.8V

Negative Resistance	-560Ω
Drive Level	60μW
Frequency Deviation	-11ppm

C1=4pF, C2=4pF, VDD=+3.3V

Negative Resistance	-560Ω
Drive Level	70μW
Frequency Deviation	-11ppm

C1=4pF, C2=4pF, VDD=+5.0V

Negative Resistance	-560Ω
Drive Level	85μW
Frequency Deviation	-10ppm

Measurement Results are for Reference only.

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[Oscillation Diagram]