

Crystal Unit

Product	FCX-05
Model number	12.000MHZ-J31932
Nominal frequency	12.000000 MHz
Overtone order [Cut]	Fundamental [AT-cut]
Load capacitance	5 pF
Equivalent series resistance	200Ω Max.
Frequency tolerance	±50 ppm (@25°C)

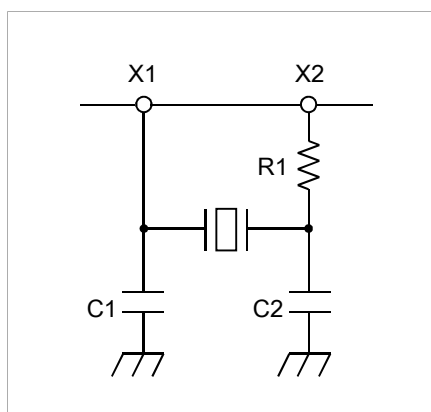
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Manufacturer	Renesas Electronics
Series	RL78/G1C
Model	R5F10Jxxx

Recommended Condition for Stable Oscillation

Negative resistance	1000Ω Min.
Drive level	300 μW Max.

Circuit Diagram



Evaluation Result

R1 [Ω]	C1 [pF]	C2 [pF]	VDD [V]	Negative resistance [Ω]	Drive level [μW]	Frequency deviation [ppm]
0	3	3	+2.4	2120	50	+5.3
			+3.95	2120	50	+5.4
			+5.5	2120	50	+5.9

* Ambient temperature: 25°C

RIVER

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