

## Crystal Unit

Product	FCX-06
Model number	20.000MHZ-J31946
Nominal frequency	20.000000 MHz
Overtone order [Cut]	Fundamental [AT-cut]
Load capacitance	5 pF
Equivalent series resistance	100Ω Max.
Frequency tolerance	±50 ppm (@25°C)

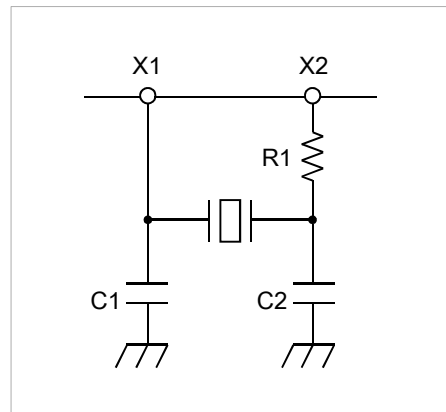
## IC

Manufacturer	Renesas Electronics
Series	RL78/L1C
Model	R5F110xxx

## Recommended Condition for Stable Oscillation

Negative resistance	500Ω Min.
Drive level	300 μW Max.

## Circuit Diagram



## Evaluation Result

Flash operation mode of RL78/L1C	R1 [Ω]	C1 [pF]	C2 [pF]	VDD [V]	Negative resistance [Ω]	Drive level [μW]	Frequency deviation [ppm]
HS (high speed main) mode	0	Open	Open	+2.7	570	50	+3.2
				+3.35	570	50	+3.6
				+4.0	570	50	+2.5

\* Ambient temperature: 25°C