

CRYSTAL OSCILLATORS

OVEN CONTROLLED CRYSTAL OSCILLATORS 9100 SERIES

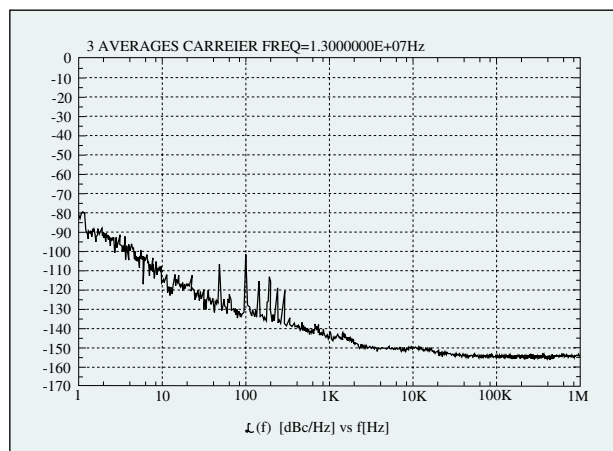
Model 9121F

- Main applications : Mobile communication system
- Features
 - Dip 14pin compatible
 - Excellent aging (5×10^{-8} max/day, 5×10^{-7} max/year)
 - Excellent phase noise characteristics

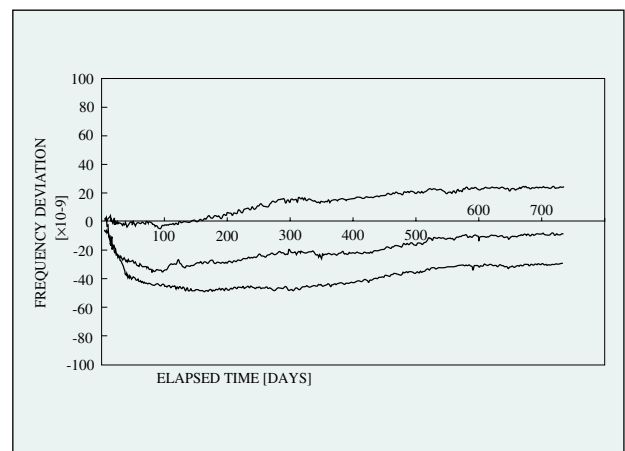
Specification

Item		Model	9121F
Standard Nominal Frequency (MHz)			10 , 13
Supply Voltage			DC+12V
Power Consumption			1.5W max, At steady state +25°C 0.5W typ.
Output Level			HC-MOS
Load			HC-MOS
Duty Cycle (+2.5V)			40~60%
Operating Temp. Range			-10~+60°C
Frequency Stability	Frequency Warm-up Charact.	2minutes after power-on at +25°C	$\pm 3 \times 10^{-7}$ max
	Short-term Stability	$\Delta f/f$ (2, τ) $\tau = 1$ s Average	1×10^{-9} max
	Aging	After 24H operation	$\pm 5 \times 10^{-8}$ max/day, $\pm 5 \times 10^{-7}$ max/year
	Temp. Charact.	-10~+60°C	$\pm 3 \times 10^{-7}$ max
	Supply Volt Change	DC+12V $\pm 10\%$	$\pm 1 \times 10^{-7}$ max
Frequency Trim Range		+0.5~+9.5V	$\pm 1.5 \times 10^{-6}$ min
Polarity			Positive
Vibration		Top amp. 1.5mm, Freq. 10~55Hz, 3planes/30minutes each	$\pm 3 \times 10^{-7}$ max
Shock		Natural Drop from 5cm height, 3planes/3times each	$\pm 3 \times 10^{-7}$ max
Case Code			21F

Phase Noise characteristics (example)

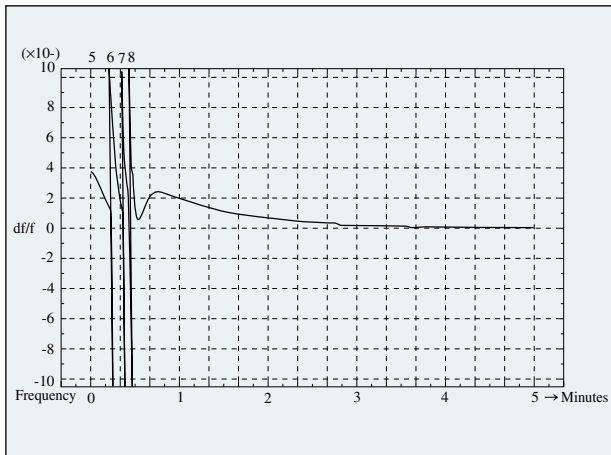


Frequency Aging (example)

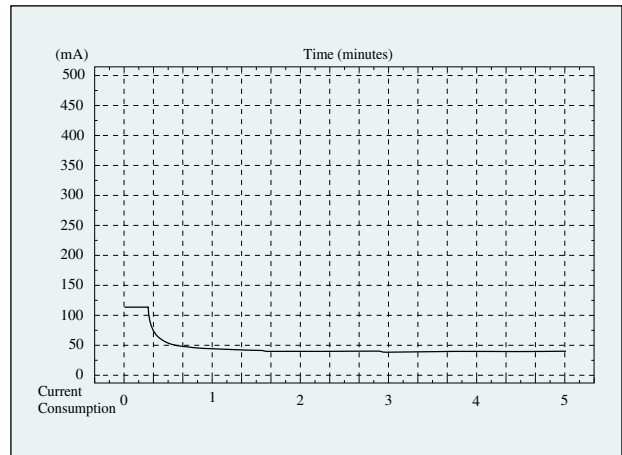


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■ Warm-up Frequency Characteristics (example)



■ Warm-up Current Characteristics (example)



■ Dimensions

