

Model Name NV7050SG

Voltage-Controlled Crystal Oscillator (VCXO)

■ Main Application

For communication equipment for ISDN, SDH, WiMAX, etc. and Basestation

■ Features

- A ceramics-package (Dimensions : 7.0 × 5.0mm).
- Low phase noise : 122.88MHz typ. -128dBc/Hz (@1kHz),
typ. -153dBc/Hz (@100kHz)
- Low jitter : 122.88MHz typ. 173fs (12k to 20MHz)
- Low current consumption. : 122.88MHz typ. 46mA
- Output level: LVPECL
- Low power supply voltage (+3.3 V).

Pb
Free

RoHS Compliant
Directive 2011/65/EU



■ Specifications

Item	Model	NV7050SG
Nominal frequency range [f] (MHz)		$60 \leq F \leq 200$
Standard frequency [f] (MHz)		122.88
Supply voltage [V _{CC}] (V)		$+3.3 \pm 10\%$
Current consumption (mA)		Max. 60
Output level		LVPECL
Symmetry (%)		45 to 55 (V _{CC} -1.3V)
Output load condition		50Ω (V _{CC} -2.0V)
Operating temperature range (°C)		-40 to +85
Storage temperature range (°C)		-55 to +125
Overall frequency tolerance		Max. $\pm 50 \times 10^{-6}$
Frequency control range / Control voltage [V _{cont}]		Min. $\pm 100 \times 10^{-6}$ / $+1.65 \pm 1.65$ V
Frequency change polarity		Positive
Enable / Disable function	Enable Low Level Type	Enable High Level Type

■ List of Ordering Codes

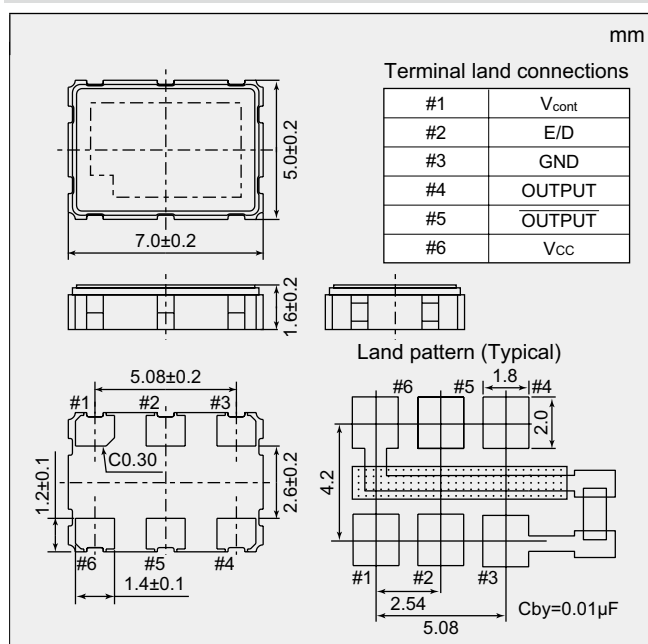
Ordering Code depends on Enable/Disable function.

Frequency (MHz)	Ordering Code	
	Enable Low Level Type	Enable High Level Type
122.88	NV7050SG-122.88M-NSA3553A	NV7050SG-122.88M-NSA3525A

The above frequencies are NDK's standard frequencies.

Frequencies other than the above are available. Feel free to contact our sales representatives.

■ Dimensions



■ List of Enable / Disable function

Enable Low Level Type

Input (#2)	Output (#4)	Output (#5)
High Level (0.7 V _{CC} min)	Disable (High Level)	Disable (Low Level)
Low Level (0.3 V _{CC} max) or Open	Enable	Enable

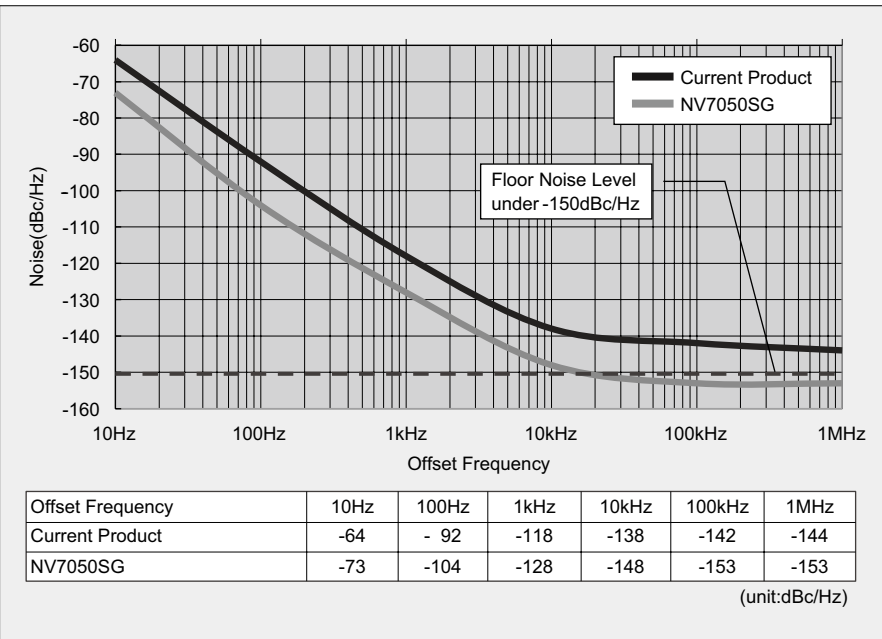
Enable High Level Type

Input (#2)	Output (#4)	Output (#5)
High Level (0.7 V _{CC} min) or Open	Enable	Enable
Low Level (0.3 V _{CC} max)	Disable (High Level)	Disable (Low Level)

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■ Phase noise characteristic (122.88MHz)



■ RMS jitter characteristic (122.88MHz)

	RMS Jitter (12kHz-20MHz)
Current Product	531fs
NV7050SG	173fs

■ Current consumption characteristic

