

Voltage-Controlled Crystal Oscillator (VCXO)

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

- 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

Item	Model	NV7050SG	
Nominal frequency range [f] (MHz)		60 ≤ F ≤ 200	
Standard frequency [f] (MHz)		122.88	
Supply voltage [V _{CC}] (V)		+3.3 ± 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. ±50 × 10 ^{−6}	
Frequency control range / Control voltage [V _{cont}]		Min. ±100 × 10 ^{−6} / +1.65 ± 1.65 V	
Frequency change polarity		Positive	
Enable / Disable function		Enable Low Level Type	Enable High Level Type

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.

mm

Pin	Function
#1	V _{cont}
#2	E/D
#3	GND
#4	OUTPUT
#5	OUTPUT
#6	V _{cc}

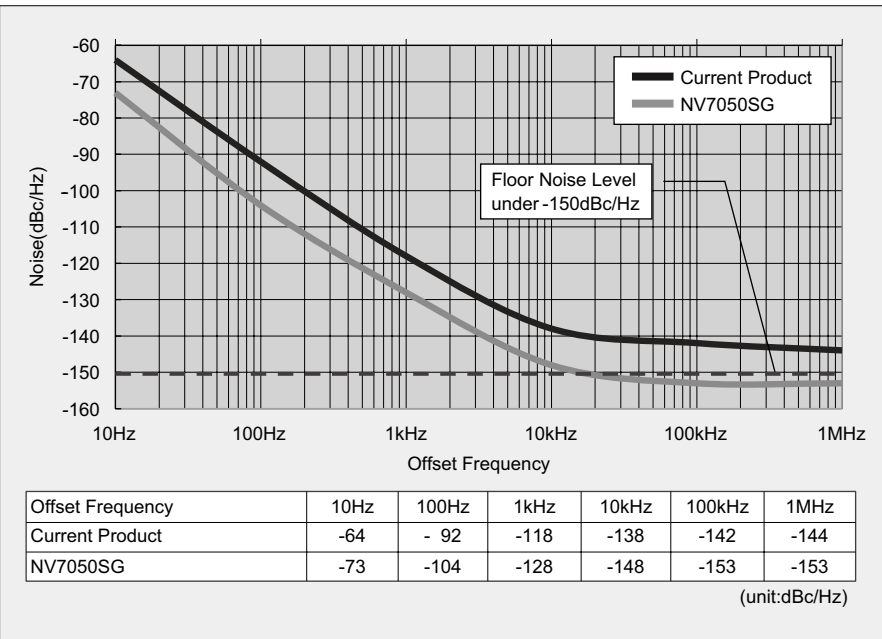
Enable Low Level Type		
Input (#2)	Output (#4)	Output (#5)
High Level (0.7 V _{CC} min)	Disable (High Level)	Disable (Low Level)
Low Level (0.3 V _{CC} max) or Open	Enable	Enable

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)

Model Name NV7050SG

Voltage-Controlled Crystal Oscillator (VCXO)

■ Phase noise characteristic (122.88MHz)



■ RMS jitter characteristic (122.88MHz)

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

■ Current consumption characteristic

