Crystal Clock Oscillator

NDK Crystal Bridge to the Future

2570 Series — TTL Drive Type

■ Model name

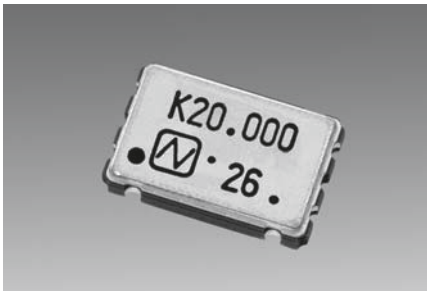
2570NK

■ Application

- For notebook PC, mobile information terminal, and PC card

■ Features

- This surface-mount crystal clock oscillator is ultra-compact, light, and leadless. Ideal for high-density mounting.
- Supports a frequency range of 1.8 to 80 MHz.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Lead-free.



Pb Free

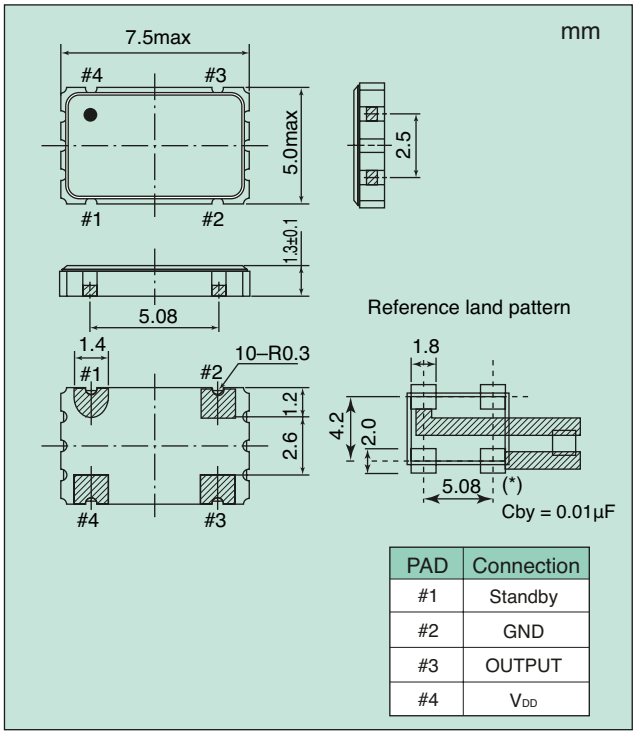
RoHS Compliant
Directive 2002/95/EC

Absolute maximum rating
Power supply voltage (V_{DD}) -0.5 to +7.0V DC
Storage temperature range -55 to +125°C

■ Specifications

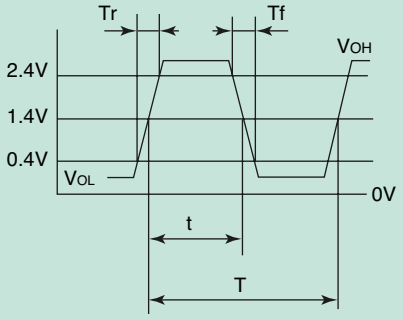
Item	Model	2570NK	
Output level		TTL	
Frequency range	(MHz)	1.8 ≤ F ≤ 32	32 < F ≤ 50
Operating temperature range	(°C)	−10 to +70	
Frequency stability	($\times 10^{-6}$)	±100	
Power supply voltage	(V)	+5.0±0.5	
Consumption current (+3.3V,25°C) max	(mA)	22	26
V_{OL} max/V_{OH} min	(V)	0.4V/2.4V I_{OL}=16mA I_{OH}=−4mA	
Tr max/Tf max	(ns)	5/5	
Duty Cycle min. to max.	(%)	45 to 55	
Load (C_L) max	TTL GATE	10	
Oscillation start time max		Available (tristate)	
Number for specifying an order		NSA3285B	

■ Dimensions



PAD	Connection
#1	Standby
#2	GND
#3	OUTPUT
#4	V_{DD}

■ Output Waveform <TTL>



Duty Cycle = t/T×100 [%]

■ Standby Function

#1 Input	#3 Input
Level H (+2.2 V min.) or OPEN is selected.	Oscillation output ON
Level L (+0.8 V max.) is selected.	High impedance

■ How to Specify an Order

When ordering our products, specify them with an "Ordering Code" that consists of the following:

Model name – Frequency (up to 9 digits) M– Number for specifying an order

Example 1: When ordering a product with model name: 2570NK, frequency: 20 MHz, frequency stability: ±100 x 10^{-6}, and power supply voltage: 5.0 V
Ordering Code: 2570NK – 20.000000M – NSA3285B

If you have any queries concerning our standard frequencies and numbers for specifying orders, please contact our sales representatives or visit our homepage (http://www.ndk.com/).