

# Crystal Clock Oscillator

## 2560 Series High Frequency-supporting Type

### Model name

2560NK

### 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

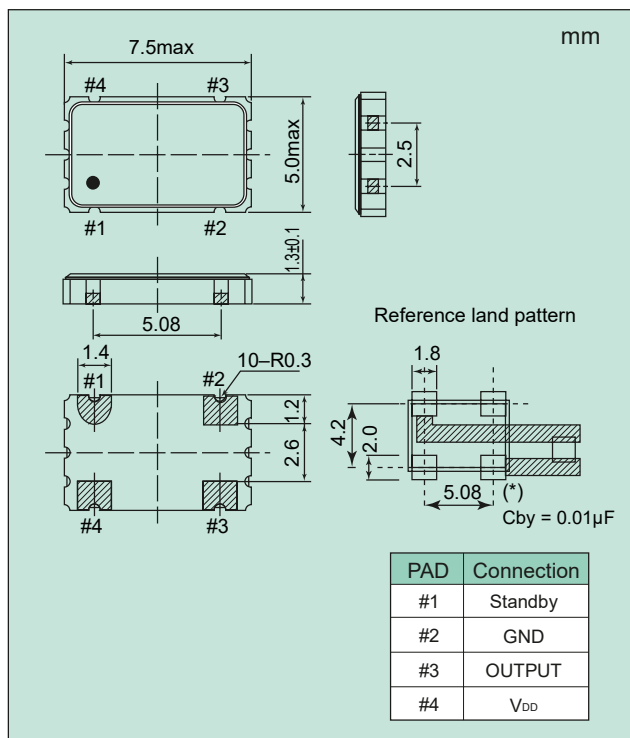


Absolute maximum rating  
Power supply voltage ( $V_{DD}$ ) -0.5 to +7.0V DC  
Storage temperature range -55 to +125°C

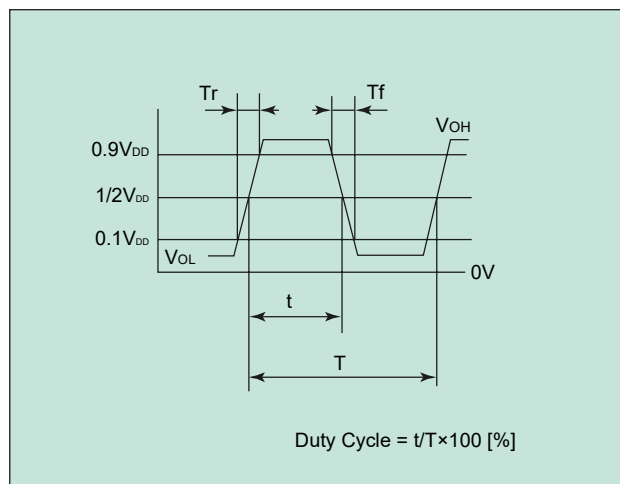
### Specifications

Item	Model	2560NK			
Output level		C-MOS			
Frequency range	(MHz)	$1.8 \leq F \leq 25$	$25 < F \leq 50$	$50 < F \leq 67$	$67 < F \leq 80$
Operating temperature range	(°C)	-10 to +70			
Frequency stability	( $\times 10^{-6}$ )	$\pm 100$			
Power supply voltage	(V)	+5.0 $\pm$ 0.5			
Consumption current (+3.3V, 25°C) max	(mA)	25	40	60	73
$V_{OL}$ max/ $V_{OH}$ min	(V)	0.1 $V_{DD}$ /0.9 $V_{DD}$ $I_{OL}$ =16mA $I_{OH}$ =-16mA			
$T_r$ max/ $T_f$ max	(ns)	5/5			
Duty Cycle min. to max.	(%)	45 to 55			
Load ( $C_L$ ) max	(pF)	50			
Oscillation start time max		Available (tristate)			
Number for specifying an order		NSA3285A			

### Dimensions



### Output Waveform <C-MOS>



### 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]

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/>).

Example 1: When ordering a product with model name: 2560NK, frequency: 80 MHz, frequency stability:  $\pm 100 \times 10^{-6}$ , and power supply voltage: 5.0 V  
Ordering Code: 2560NK - 80.000000M - NSA3285A