Crystal Clock Oscillator NEW



NZ2520S Series

Low Phase Noise Type

■ Model name

NZ2520SD Frequency stability of $\pm 50 \times 10^{-6}$.

■ Application

For wireless LAN





Absolute maximum rating
Power supply voltage (V_{DD}) –0.6 to +6.0 V
Storage temperature range –55 to +125 °C

■ Features

- Low phase noise, low voltage, low consumption current, and high stability, make this product ideal for wireless LAN.
- Compact and light. Dimensions and weight: 2.5 x 2.0 mm, 0.9 mm, and 0.02 g.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- Lead-free.

■ Specifications

Item Model			Model	NZ2520SD		
Output level				C-MOS		
Frequency range *1			(MHz)	20 ≤ F < 30	30 ≤ F ≤ 40	
Operating temperature range *2			(°C)	-40 to +85		
Frequency Stability (:			(×10 ⁻⁶)	±50		
Current	During operation	+3.3 V, 25 °C	(mA)	4.5	5.5	
consumption max	During standby	+3.3 V, 25 °C	(μΑ)	10		
Vol max/Voн min			(V)	0.1 V _{DD} /0.9 V _{DD}		
Tr max/Tf max			(ns)	6/6		
Duty Cycle min. to max. ((%)	45 to 55		
Load (C _L) max (p			(pF)	15		
Oscillation start time max (ms)			(ms)	4		
Standby function				Available (tristate)		
Phase noise)	+3.3 V, 25 °C		Fout±1 kHz : -145 (Typ)		
r nase noise				Fout±100 kHz : -158 (Typ)		

^{*1:} If you require a product with a frequency not given above, please contact us.

■ List of Codes for Placing an Order

List of Codes for Placing an Order	NSA3449E	
Power supply voltage [VDD]		+3.3±0.33

^{*2:} If you require a product with an operating temperature range not given above, please contact us.

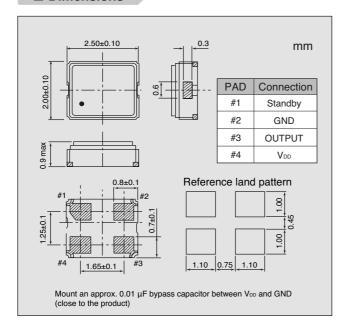
Crystal Clock Oscillator NEW



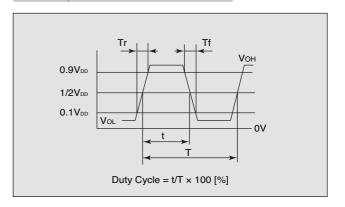
NZ2520S Series

Low Phase Noise Type

■ Dimensions



■ Output Waveform <C-MOS>



■ Standby Function

#1 Input	#3 Output
Level H (0.7 V _{DD} ≤ V _{IH} ≤ V _{DD}) or OPEN is selected.	Oscillation output ON
Level L (V _{IL} ≤ 0.3 V _{DD}) 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: When ordering a product with model name: NZ2520SD, frequency: 20 MHz, frequency stability: ±50 x 10⁻⁶,

and power supply voltage: 3.3 V

Ordering Code: NZ2520SD - 20.000000M - NSA3449E

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/).