Crystal Clock Oscillator NEW



NZ2520S Series

Model name

NZ2520SF Overall frequency tolerance of $\pm 100 \text{ x } 10^{-6}$.

■ Application

• For Portable equipment (ex. Mobile Phone, Digital Media Player, PND, Notebook PC, etc)

Features

- Ultralow power-driven (0.8V min) crystal clock oscillator, ideal for mobile devices.
- Compact and light. Dimensions : 2.5 x 2.0 x 0.9 mm, weight : 0.02 g.
- This crystal clock oscillator can support low frequencies (from 1.0MHz) not easily achieved with crystal units of the same size.
- Taped units enable automatic mounting and IR Reflow (lead free) is possible.
- Lead-free.

Specifications

Item Model				NZ2520SF
Output level				CMOS
Nominal frequency range ^{*1} (I			(MHz)	1.0 ≤ F ≤ 50
Operating temperature range *2			(°C)	-20 to +70
Overall frequency tolerance			(×10⁻₀)	±100
	During	+0.9 V, 25 °C	(mA)	3.5
Current		+1.2 V, 25 °C		5.0
consumption max		+1.5 V, 25 °C		6.0
	During standby	+0.9 V to +1.5 V, 25 °C	(µA)	10
Vo∟ max/Voн min (V)			(V)	0.1 Vdd/0.9 Vdd
Tr max/Tf max (n:			(ns)	5/5
Symmetry min. to max. (%)			(%)	45 to 55
Load (CL) max (pF)			(pF)	15
Start-up time max (ms)			(ms)	4
Standby function				Available (tristate)

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

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

■ List of Codes for Placing an Order

List of Codes for Placing an Order	NSA3468A	NSA3477A	NSA3469A	
Supply voltage	(V)	+0.9±0.1	+1.2±0.1	+1.5±0.1



Ultralow Power-Driven Type

Absolute maximum rating Supply voltage (V_{DD}) –0.5 to +4.0 V Storage temperature range –55 to +125 °C

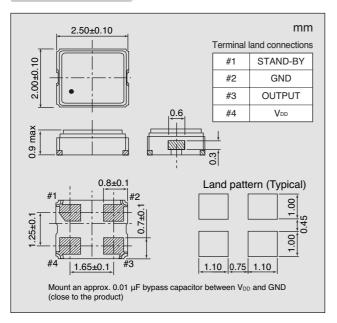
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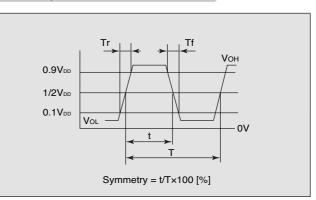
NZ2520S Series

Ultralow Power-Driven Type

Dimensions



Output Waveform <CMOS>



Standby Function

#1 Input	#3 Output	
Level H (0.7 $V_{DD} \le V_{IH} \le V_{DD}$) or OPEN is selected.	Oscillation output ON	
Level L (V $_{\rm L} \leq 0.3~V_{\rm DD})$ 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 1: When ordering a product with model name: NZ2520SF, frequency: 20 MHz, overall frequency tolerance: ±100 x 10⁻⁶, and power supply voltage: 0.9 V

Ordering Code: NZ2520SF - 20.000000M - NSA3468A

Example 2: When ordering a product with model name: NZ2520SF, frequency: 20 MHz, overall frequency tolerance: ±100 x 10⁻⁶, and power supply voltage: 1.5 V

Ordering Code: NZ2520SF - 20.000000M - NSA3469A

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/).