Crystal Clock Oscillator

NZ2520S Series

Model name

NZ2520SB Overall frequency tolerance of ±30 x 10-6.

■ Application

For Mobile Phone, Tablet computer, and automobile audio equipment, etc)

Features

- Compact and light. Dimensions : 2.5 x 2.0 x 0.9 mm, weight : 0.02 g.
- This product applied AT-cut crystal blank which has a superior frequency stability. So, narrow deviation(±30×10⁻⁶) and quick oscillation start up time (1ms typ) are available.

Specifications

Item		Model	NZ2520SB		
Output level			CMOS		
Nominal frequency range *1		(kHz)	32.768		
Operating temperature range *2		(°C)	-40 to +85		
Overall frequency tolerance		(×10⁻6)	±30		
Supply voltage (Vcc)		(V)	1.8	2.5	3.3
Current consumption max	During operation (25 °C)	(mA)	0.22 (0.11 typ.)	0.24 (0.12 typ.)	0.26 (0.13 typ.)
	During standby	(µA)	10		
Vol max/Voн min		(V)	0.1 Vcc/0.9 Vcc		
Tr max/Tf max		(ns)	200/200 (at 0.1Vcc to 0.9Vcc)		
Symmetry min. to max.		(%)	45 to 55 (at 0.5Vcc)		
Load (C∟) max		(pF)	15		
Start-up time max		(ms)	5		
Frequency aging max		(×10 ⁻⁶)	±5 (+25°C, First year)		
Standby function			Available (Three-state)		

*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 (The purchase order number differs according to the difference in supply voltage.)		NSA3534C	NSA3535C	NSA3536C
Supply voltage (Vcc)	(V)	+1.8±0.18	+2.5±0.25	+3.3±0.33





Absolute maximum rating Supply voltage (Vcc) -0.3 to +7.0 V Storage temperature range -55 to +125 °C



(32.768kHz)

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NZ2520S Series

(32.768kHz)





Output Waveform <CMOS>



Standby Function

#1 Input	#3 Output
Level H (0.7 $V_{CC} \le V_{H} \le V_{CC}$) or OPEN is selected.	Oscillation output ON
Level L (V _{IL} ≤ 0.3 V _{CC}) 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) k – Number for specifying an order

Example 1: When ordering a product with model name: NZ2520SB, frequency: 32.768kHz, overall frequency tolerance: ±30 x 10⁻⁶, and supply voltage: 1.8 V

Ordering Code: NZ2520SB - 32.768000K - NSA3534C

Example 2: When ordering a product with model name: NZ2520SB, frequency: 32.768kHz, overall frequency tolerance: ±30 x 10⁻⁶, and supply voltage: 3.3 V Ordering Code: NZ2520SB – 32.768000K – NSA3536C

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/).

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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

NDK:

NZ2520SB-32.768KHZ-NSA3534C NZ2520SB-32.768KHZ-NSA3536C