imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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 (CL) 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)

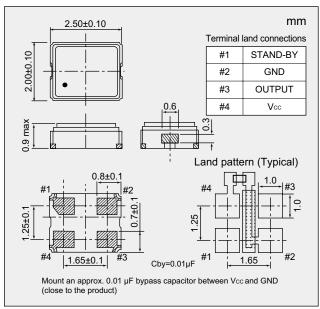
Crystal Clock Oscillator



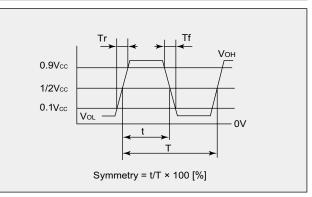
NZ2520S Series

(32.768kHz)





Output Waveform <CMOS>



Standby Function

#1 Input	#3 Output	
Level H (0.7 $V_{CC} \le V_{IH} \le V_{CC}$) 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/).