Crystal Clock Oscillator NEW

NZ2520S Series

Model name

NZ2520SB Frequency stability of ±30 x 10⁻⁶.

Application

• For compact mobile information equipment, such as DVC, DSC, notebook PC, and PDA

Features

- Size: A minimum-size crystal clock oscillator with dimensions of 2.5 x 2.0 mm.
- Thickness: Ultra-thin with a thickness of 0.9 mm.
- Weight: Weighs only 0.02 g, giving unparalleled light-weight.
- This crystal clock oscillator can support low frequencies (from 1.5 MHz); an achievement not easy for other crystal oscillators of the same size to equal.
- Automatic mounting by taping and IR reflow (lead-free) are possible.
- I ead-free





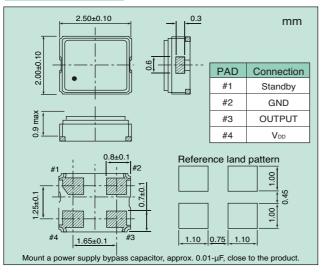
Absolute maximum rating Power supply voltage (VDD)-0.5 to +4.0V DC Storage temperature range -55 to +125°C

Specifications

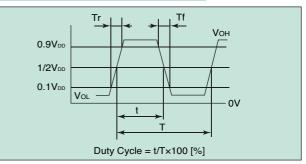
Item		NZ2520SB									
Output level				C-MOS							
Frequency range ¹ (1			(MHz)	1.5 ≤ F < 10	10 ≤ F	< 20	$20 \le F < 30$	$30 \le F < 40$	$40 \le F < 50$	50 ≤ F ≤ 60	
Operating temperature range ² (°C			(°C)	-10 to +60							
Frequency Stability (×10 ⁻⁶)			(×10 ^{−6})	±30							
Power supply voltage			(V)	+1.8±0.1			+2.5±0.1	+3.0±0.1		+3.3±0.1	
Consumption current	During operation	+1.8V, 25°C	(mA)	2.5	3.5	5	4.0	4.5	5.0	5.5	
		+2.5V, 25°C		3.0	4.0		4.5	5.0	5.5	6.0	
		+3.0V, 25°C		3.5	4.5		5.0	5.5	6.0	6.5	
		+3.3V, 25°C		3.5	4.5		5.0	5.5	6.0	7.0	
	During standby	+1.8V, 25°C	(μΑ)	10							
		+2.5V, 25°C									
		+3.0V, 25°C									
		+3.3V, 25°C									
V _{OL} max/V _{OH} min (V)				0. 1Vdd/0. 9Vdd							
Tr max/Tf max (ns)				5/5							
Duty Cycle min. to max. (%)			45 to 55								
Load (CL) max (pF)			15								
Oscillation start time max (ms)				10							
Standby function				Available (tristate)							
Number for specifying an order				NSA341	2C	N	ISA3413C	NSA3414	4C	NSA3415C	

*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.

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 ⊾ ≤ 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 1: When ordering a product with model name: NZ2520SB, frequency: 20 MHz, frequency stability: ±30 x 10⁻⁶, and power supply voltage: 1.8 V Ordering Code: NZ2520SB – 20.00000M – NSA3412C Example 2: When ordering a product with model name: NZ2520SB, frequency: 20 MHZ, frequency stability: ±30 x 10⁻⁶, and power supply voltage: 3.3 V Ordering Code: NZ2520SB – 20.00000M – NSA3415C

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/).

