

Crystal Clock Oscillator

NZ2520SEB

High-precision Type

Application

- For car navigation, car audio, camera
- For smartphones, tablets, notebook PCs, PC cards, etc.
- For audio and wireless modules
- For communication equipment such as SDH / SONET, WiMAX, LTE, base stations
- For WiLAN, Bluetooth, PLC (power line carrier communication), UWB (ultra-wideband wireless)



Features

- Overall Frequency Tolerance Max. $\pm 25 \times 10^{-6}$ at -40 to $+85^\circ\text{C}$.
- Compact and light. Dimensions : $2.5 \times 2.0 \times 0.9$ mm, weight : 0.02 g.
- Taped units enable automatic mounting IR Reflow (lead free) is possible.
- Conforms to AEC-Q200.

Pb Free

RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863

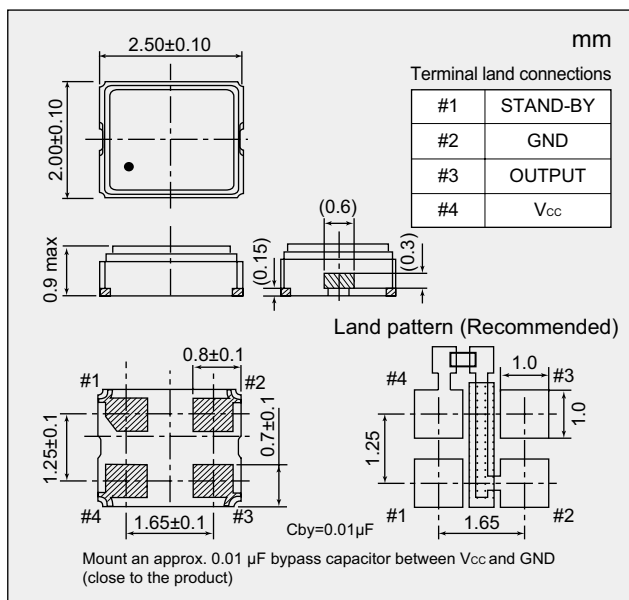
Absolute maximum rating
Supply Voltage (V_{CC}) -0.3 to $+4.5$ V
Storage Temperature Range -55 to $+125^\circ\text{C}$

Specifications

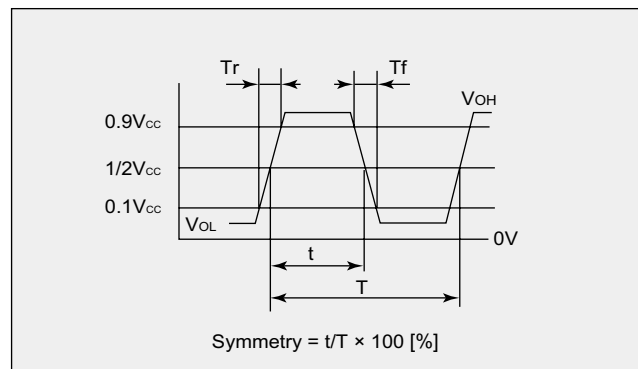
Item	Model	NZ2520SEB
Output Specification		CMOS
Nominal Frequency	(MHz)	24, 25, 26
Overall Frequency Tolerance	($\times 10^{-6}$)	± 12 to ± 25 (*1)
Operating Temperature Range	($^\circ\text{C}$)	$[-10$ to $+60]$ to $[-40$ to $+85]$ (*1)
Supply Voltage [V_{CC}]	(V)	$+1.8$ to $+3.3$ (*1)
Current Consumption Max.	During Operation	$+25^\circ\text{C}$ (mA)
	During Standby	$+25^\circ\text{C}$ (μA)
V_{OL} Max. / V_{OH} Min.	(V)	$0.1 V_{CC}$ / $0.9 V_{CC}$
T_r Max. / T_f Max.	(ns)	5 / 5
Symmetry Min. to Max.	$+25^\circ\text{C}$ (%)	45 to 55
Load (C_L) Max.	(pF)	15
Start-up Time Max.	(ms)	4
Standby function		Available (Three-state)

(*1) Please refer to the Specification Number.

Dimensions



Output Waveform <CMOS>



Standby Function

#1 Input	#3 Output
Level H ($0.7 V_{CC} \leq V_{IH} \leq V_{CC}$) or OPEN is selected.	Oscillation output ON
Level L ($V_{IL} \leq 0.3 V_{CC}$) is selected.	High impedance

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■ Specification Number

Overall Frequency Tolerance	Operating Temperature Range (°C)	Supply Voltage (V)			
		+1.8±0.10	+2.5±0.25	+3.0±0.3	+3.3±0.33
±25 × 10 ⁻⁶	-40 to +85	NSC5281A	NSC5281B	NSC5281C	NSC5281D
±20 × 10 ⁻⁶	-30 to +85	NSC5282A	NSC5282B	NSC5282C	NSC5282D
±15 × 10 ⁻⁶	-20 to +70	NSC5283A	NSC5283B	NSC5283C	NSC5283D
±12 × 10 ⁻⁶	-10 to +60	NSC5284A	NSC5284B	NSC5284C	NSC5284D

Please specify the model name, frequency, and specification number when you order products.

For further questions regarding specifications, please feel free to contact us.