Crystal Clock Oscillator



NZ2520SHB

Low Current Consumption Type (32.768kHz)

Application

For Smartphone and Tablet computer etc.

Features

- Supports a wide temperature range from -40 to +125°C.
- Compact and light. Dimensions : 2.5 x 2.0 x 0.9 mm, weight : 0.02 g.
- Quick oscillation start up time is available compared to our Tuning Fork Crystal.
- Conforms to AEC-Q200.

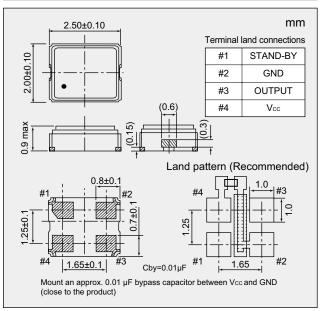


Absolute maximum rating Supply Voltage (Vcc) –0.3 to +4.5 V Storage Temperature Range –55 to +125 °C

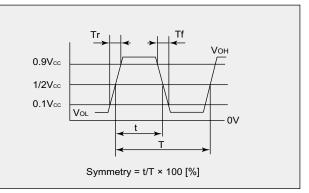
Specifications

Item			Model	NZ2520SHB			
Output Specification				CMOS			
Nominal Frequency			(kHz)	32.768			
Overall Frequency Tolerance			(×10 ⁻⁶)	±100	±50	±50	±30
Operating Temperature Range			(°C)	-40 to +125	-40 to +105	-40 to +85	-40 to +85
Supply Voltage (Vcc)			(V)	1.8 to +3.3			
Current Consumption Max.	During Operation	+25°C, No-load	(µA)	18 (Тур.10µА) 32 (Тур.1			32 (Typ.18µA)
	During Standby	+25°C	(µA)	5			
Vol Max. / Voн Min.			(V)	0.1 Vcc / 0.9 Vcc			
Tr Max. / Tf Max.			(ns)	50 / 50 (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)	20 (Vcc : +2.5V ~ +3.3V), 30 (Vcc : +1.8V)			
Frequency Aging Max.			(×10⁻6)	±5 (+25°C, First year)			
Standby function				Available (Three-state)			

Dimensions



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

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Specification Number

Overall Frequency	Operating Temperature Range (°C)	Supply Voltage (V)			
Tolerance		+1.8±0.18	+2.5±0.25	+3.0±0.3	+3.3±0.33
±100 × 10-6	-40 to +125	NSC5135A	NSC5135B	NSC5135C	NSC5135D
±50 × 10-6	-40 to +105	NSC5136A	NSC5136B	NSC5136C	NSC5136D
±50 × 10-6	-40 to +85	NSC5137A	NSC5137B	NSC5137C	NSC5137D
±30 × 10-6	-40 to +85	NSC5308A	NSC5308B	NSC5308C	NSC5308D

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

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