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.

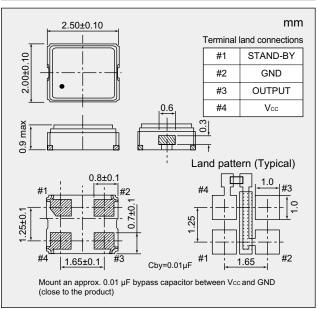


Absolute maximum rating Supply Voltage (Vcc) –0.3 to +4.5 V Storage Temperature Range –55 to +125 °C

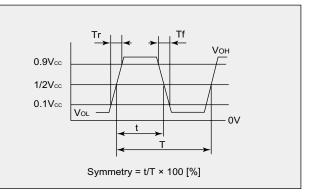
Specifications

Item Mo			Model	NZ2520SHB			
Output Specification			CMOS				
Nominal Frequency			(kHz)	32.768			
Overall Frequency Tolerance			(×10 ⁻⁶)	±100	±50	±50	
Operating Temperature Range			(°C)	-40 to +125	-40 to +105	-40 to +85	
Supply Voltage (Vcc)			(V)	1.8 to +3.3			
Current Consumption Max.	During Operation	+25°C	(µA)	18			
	During Standby	+25°C	(µA)	5			
Vol Max. / Voh 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 (CL) Max.			(pF)	15			
Start-up Time Max. (m			(ms)	20			
Frequency Aging Max. (×10 ⁻⁶)			(×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	Supply Voltage (V)			
Tolerance	Range (°C)	+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

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

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