Crystal Clock Oscillator NEW





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(Typ. 1ms) is available compared to our Tuning Fork Crystal.
- Conforms to AEC-Q200.



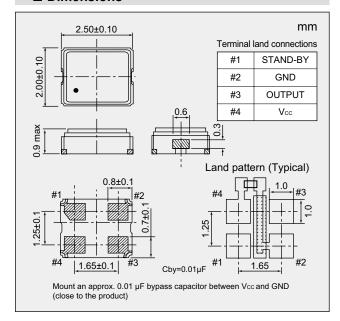


Absolute maximum rating Supply Voltage (Vcc) -0.3 to +4.5 V Storage Temperature Range -55 to +125 °C

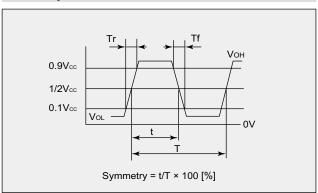
■ Specifications

Item Mode				NZ2520SHB				
Output				CMOS				
Nominal Frequency			(kHz)	32.768				
Overall Frequency Tolerance			(×10 ⁻⁶)	±100	±50	±30		
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. / 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 (CL) Max.			(pF)	15				
Start-up Time Max. (ms			(ms)	4 (Typ. 1ms)				
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
±30 × 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.