Crystal Clock Oscillator



NZ3225SH

Standard Type (32.768kHz)

Application

For Smartphone and Tablet computer etc

Features

- Compact and light. Dimensions : 3.2 x 2.5 x 0.9 mm, weight : 0.02 g.
- Quick oscillation start up time(Typ. 1ms) is available compared to our Tuning Fork Crystal.

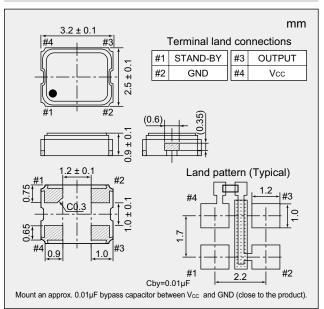


Absolute maximum rating Supply Voltage (Vcc) –0.3 to +7.0 V Storage Temperature Range –55 to +125 $^\circ C$

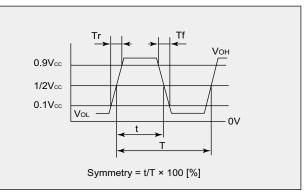
Specifications

Item Model				NZ3225SH		
Output				CMOS		
Nominal Frequency			(kHz)	32.768		
Overall Frequency Tolerance			(×10 ^{−6})	±30		
Operating Temperature Range			(°C)	-40 to +85		
Supply Voltage (Vcc)			(V)	+1.8 to +3.3		
Current Consumption Max.	During Operation	+25°C	(µA)	160 to180		
	During Standby	+25°C	(µA)	20		
Vol Max. / Voн Min.			(V)	0.1 Vcc / 0.9 Vcc		
Tr Max. / Tf Max.			(ns)	200 / 200 (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)	4 (Typ. 1ms)		
Frequency Aging Max. (×10 ⁻⁶)			(×10⁻₀)	±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	
±30 × 10-6	-40 to +85	NSC5049A	NSC5049B	NSC5049C	NSC5049D	

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

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