

Crystal Clock Oscillator

NZ3225SF

Ultralow Power-Driven Type

Application

- For Portable equipment (ex. Mobile Phone, Digital Media Player, PND, Notebook PC, etc)

Features

- Ultralow power-driven (Min. +0.8V) crystal clock oscillator, ideal for mobile devices.
- Compact and light. Dimensions : 3.2 x 2.5 x 0.9 mm, weight : 0.02 g.
- Taped units enable automatic mounting and IR Reflow (lead free) is possible.
- Lead-free.



Pb Free

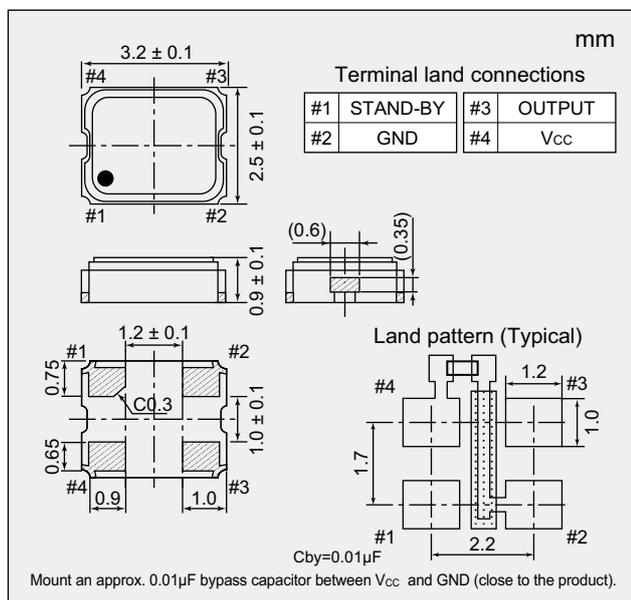
RoHS Compliant
Directive 2011/65/EU

Absolute maximum rating
Supply Voltage (V_{CC}) -0.5 to $+4.0$ V
Storage Temperature Range -55 to $+125$ °C

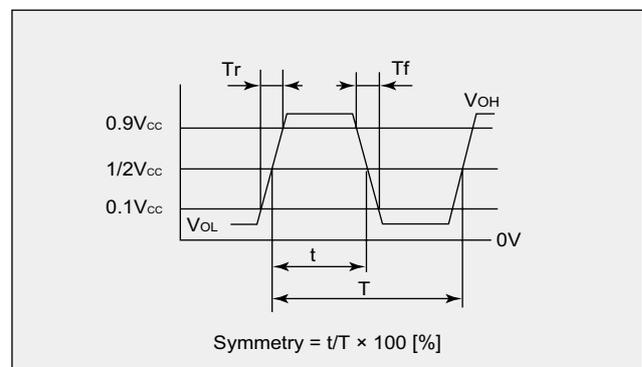
Specifications

Item	Model	NZ3225SF	
Output Level		CMOS	
Nominal Frequency Range	(MHz)	1.5 to 50	
Overall Frequency Tolerance	($\times 10^{-6}$)	± 50	± 30
Operating Temperature Range	(°C)	-40 to $+85$	-10 to $+70$
Supply Voltage	(V)	$+0.9$ to $+1.5$	
Current Consumption Max.	During Operation	$+25$ °C	(mA)
	During Standby	$+25$ °C	(μ A)
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.	(%)	45 to 55	
Load (C_L) Max.	(pF)	15	
Start-up Time Max.	(ms)	4	
Standby function		Available (Three-state)	

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)		
		+0.9±0.1	+1.2±0.1	+1.5±0.1
±50×10 ⁻⁶	-40 to +85	NSC5037A	NSC5037B	NSC5037C
±30×10 ⁻⁶	-10 to +70	NSC5039A	NSC5039B	NSC5039C

Please specify the model name, frequency, and specification number when you order products.
For further questions regarding specifications, please feel free to contact us.