

Crystal Clock Oscillator

NZ2016SF

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.
- Ultra compact and light. Dimensions : 2.0 x 1.6 x 0.7 mm, weight : 0.01 g.
- Wide frequency range: 1.5 to 50 MHz.
- Taped units enable automatic mounting and IR Reflow (lead free) is possible.
- Lead-free.



Pb
Free

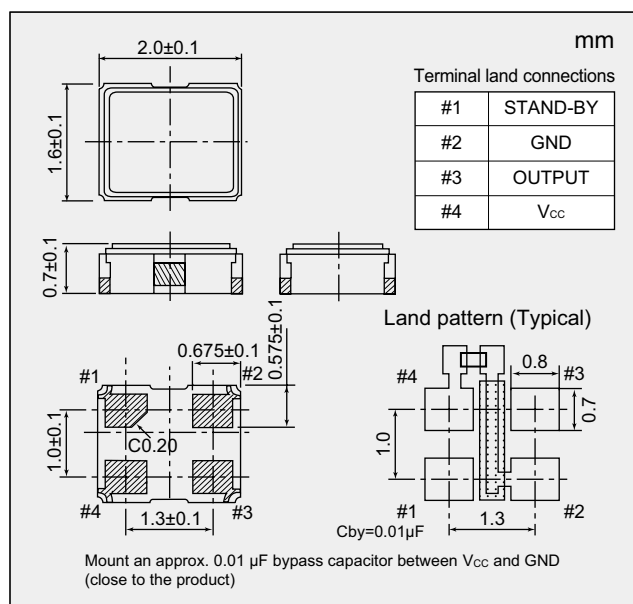
RoHS Compliant
Directive 2011/65/EU

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

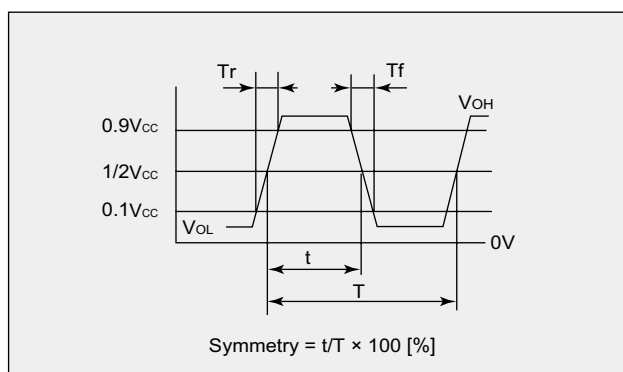
■ Specifications

Item		Model	NZ2016SF	
Output Specification			CMOS	
Nominal Frequency Range		(MHz)	1.5 ≤ F ≤ 50	
Overall Frequency Tolerance		(×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)	1.5 to 6.0
	During Standby	+25 °C	(μA)	100
V _{OL} Max. / V _{OH} Min.		(V)	0.1 V _{CC} / 0.9 V _{CC}	
Tr Max. / Tf 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	NSA3480E	NSA3481E	NSA3482E
±30×10 ⁻⁶	-10 to +70	NSA3480C	NSA3481C	NSA3482C

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

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