

Crystal Clock Oscillator

NZ2016SJ

Low current consumption Type

■ Application

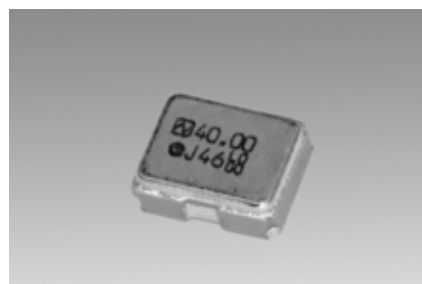
- For Smartphones, Tablet computers, notebook PC, DSC, etc.

■ Features

- External configuration size is 2.0 x 1.6 x 0.7mm (weight of 0.01g), and is micro light weight.
- Low current consumption (Max. 0.7mA, @40MHz, +1.8V, No-load).
- Lead-free.

Pb
Free

RoHS Compliant
Directive 2011/65/EU
Directive (EU) 2015/863



Absolute maximum rating
Supply Voltage (V_{CC}) -0.3 to +4.0 V
Storage Temperature Range -55 to +125 °C

■ Specifications

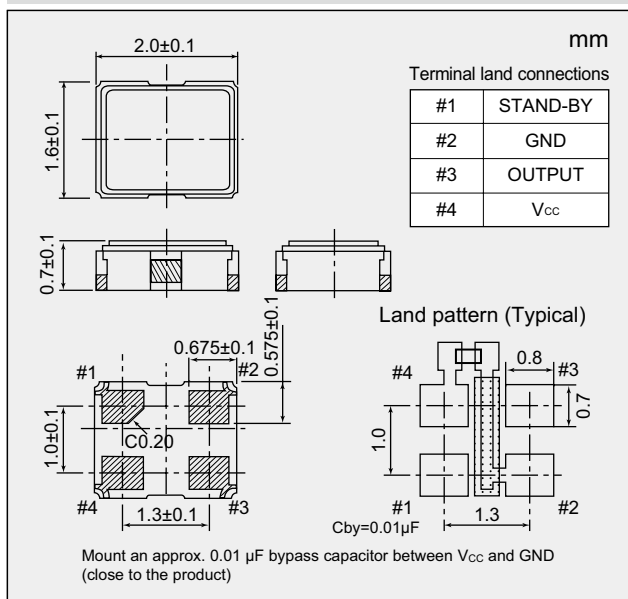
Item			Model	NZ2016SJ
Output Specification				CMOS
Nominal Frequency Range			(MHz)	6 ≤ F ≤ 40
Overall Frequency Tolerance ^{*1}			(×10 ⁻⁶)	± 30
Operating Temperature Range			(°C)	-40 to +85
Supply Voltage [V _{CC}]			(V)	+1.8 ± 0.18
Current Consumption Max.	During Operation ^{*2}	+25 °C, No-load	(mA)	0.60 to 0.70
		+25 °C, 15pF		0.92 to 1.78
	During Standby	+25 °C, No-load/15pF	(μA)	10
V _{OL} Max. / V _{OH} Min.			(V)	0.1 V _{CC} / 0.9 V _{CC}
Tr Max. / Tf Max.			(ns)	8/8 (at 0.1V _{CC} to 0.9V _{CC})
Symmetry Min. to Max.			(%)	45 to 55 (at 0.5V _{CC})
Load (C _L) Max.			(pF)	15
Start-up Time Max.			(ms)	4
Standby function				Available (Three-state)
Specification Number				NSA3609A

*1 : Frequency Tolerance (+25°C), Frequency/Temperature characteristics, Frequency/Voltage characteristics.

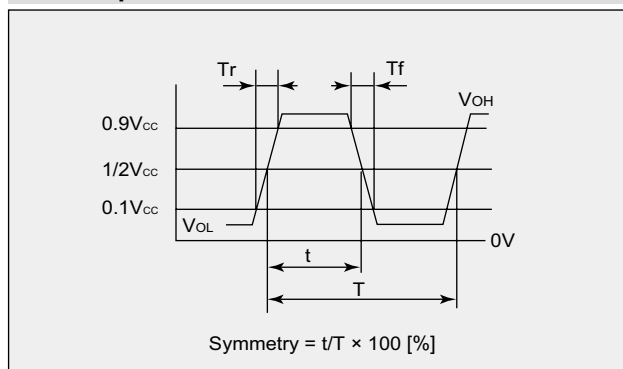
*2 : Consumption current at the time of loading capacity(C_{LOUT}) on an output I_{CC} (C_{LOUT}) is consumption current(I_{CC}) at the time of no-load, and output frequency. (F_{OUT}) It can ask by the following formula.

$$I_{CC}(C_{LOUT})[mA] = I_{CC}[mA] + C_{LOUT}[pF] \times V_{CC}[V] \times F_{OUT}[MHz] \cdot 10^{-3}$$

■ 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

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