Crystal Clock Oscillator



NZ2016SJ

Low current consumption Type

■ Application

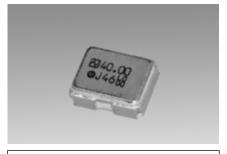
• For Smartphones, Tablet computers, notebook PC, DSC, etc.

■ 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.







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

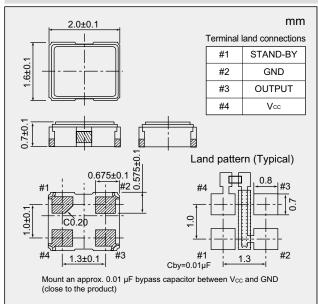
■ Specifications

Item				NZ2016SJ
Output Level				CMOS
Nominal Frequency Range			(MHz)	6 to 40
Overall Frequency Tolerance*1			(×10 ⁻⁶)	± 30
Operating Temperature Range			(°C)	-40 to +85
Supply Voltage [Vcc]			(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
VoL Max. / Voн Min.			(V)	0.1 Vcc / 0.9 Vcc
Tr Max. / Tf Max.			(ns)	8/8 (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
Standby function				Available (Three-state)
Specification Number				NSA3609A

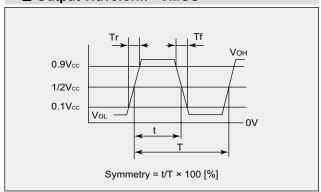
^{*1 :} Frequency Tolerance (+25°C), Frequency/Temperature characteristics, Frequency/Voltage characteristics.

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

■ Dimensions



■ Output Waveform <CMOS>



■ Standby function

#1 Input	#3 Output
Level H (0.7 $V_{CC} \le V_{IH} \le V_{CC}$) or OPEN is selected.	Oscillation output ON
Level L (V _{IL} ≤ 0.3 V _{CC}) is selected.	High impedance

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

^{*2 :} Consumption current at the time of loading capacity(CLOUT) on an output Icc (CLOUT) is consumption current(Icc) at the time of no-load, and output frequency. (FOUT) It can ask by the following formula.