Crystal Clock Oscillator



NZ2520SJ

Low current consumption Type

Application

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

Features

- External configuration size is 2.5 x 2.0 x 0.9mm (weight of 0.02g), and is micro light weight.
- Low current consumption (Max. 0.7mA, @40MHz, +1.8V, No-load).
- Lead-free.



RoHS Compliant Directive 2011/65/EU

Pb

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

Specifications

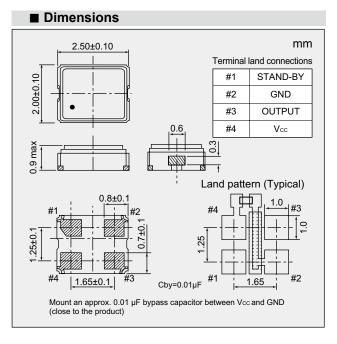
Item				NZ2520SJ		
Output Level				CMOS		
Nominal Frequency Range			(MHz)	5 to 40		
Overall Frequency Tolerance *1			(×10 ⁻⁶)	± 30		
Operating Temperature Range			(°C)	-40 to +85		
Supply Voltage [Vcc]			(V)	+1.8 ± 0.18		
Current Consumption Max.	During operation ^{*2}	+25 °C, No-load	(mA)	0.55 to 0.70		
		+25 °C, 15pF		0.82 to 1.78		
	During standby	+25 °C, No-load/15pF	(µA)	10		
VoLMax. / 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 (C∟) Max.				15		
Start-up Time Max.				4		
Standby function				Available (Three-state)		
Specification Number				NSA3608A		

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

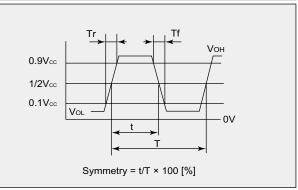
*2 : Consumption current at the time of loading capacity(CLOUT) on an output Icc (CLOUT) is consumption current(Icc) at the time of no-load, and output frequency.

(Four) It can ask by the following formula.

Icc(CLOUT)[mA]=Icc[mA]+CLOUT[pF]×Vcc[V]×FOUT[MHz] · 10-3



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} \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.