Crystal Clock Oscillator



Directive 2011/65/EU

NZ2520SEA

Application

• WILAN, WIMAX, Bluetooth, PLC, UWB, Car-electronics connection.

Features

This device is a new SPXO of hold over frequency tolerance as tight as $\pm 15x \ 10^{-6}(-40 \ to \ +85^{\circ}C)$ by building a temperature compensating circuit in it. CMOS output despite temperature compensated circuit. This device reduces harmonics level to prevent the interference with the radio frequency by the wireless communication use.

- Overall Frequency Tolerance Max. ±15×10⁻⁶ at -40 to +85°C.
- CMOS output
- Harmonics level reduce.
- Conventional ratio about -17dBm at Output 40MHz, Vcc 2.8V, 2.4GHz band.
- Supply voltage : 1.8 ± 0.09V, 2.5 ± 0.125V, 3.3 ± 0.165V. ^{*1}
- Package Size : 2.5 x 2.0 x 0.8mm

*1: Please specify one supply voltage.

Specifications

High-precision Crystal Clock Oscillator

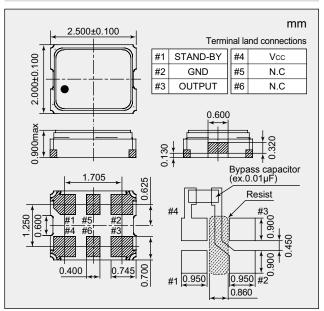
Absolute maximum rating Supply Voltage (Vcc) –0.6 to +6.0 V Storage Temperature Range –55 to +125 °C

Free

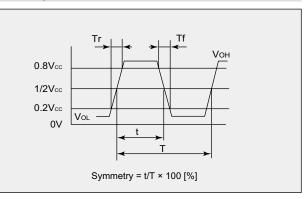
			Model			NZ2E200EA		
Item			Model	NZ2520SEA				
Output Level				CMOS				
Nominal Frequency Range (N			(MHz)	2.75 ≤ F < 11	11 ≤ F < 22	22 ≤ F < 30	30 ≤ F < 40	40 ≤ F ≤ 54
Operating Temperature Range			(°C)	-40 to +85				
Overall Frequency Tolerance *2 Max.			(×10 ⁻⁶)	±15				
Current Consumption Max.	During Operation	+1.8 V, +25 °C	(mA)	3.5	4.0	4.5	5.0	6.0
		+2.5 V, +25 °C		4.0	4.5	5.0	5.5	6.5
		+3.3 V, +25 °C		4.5	5.0	5.5	6.0	8.0
	During Standby	+1.8 to +3.3 V, +25 °C	(µA)			10		
VoLMax. / Voн Min. ((V)	0.2 Vcc / 0.8 Vcc				
Tr Max. / Tf Max.			(ns)	5/5 (at 0.2 to 0.8Vcc)				
Symmetry Min. to Max. ((%)	45 to 55 (at 1/2Vcc)				
Load (CL) Max. (p			(pF)	15				
Start-up Time Max. (n			(ms)	10				
Standby function			Available (Three-state)					

*2: Inclusive of +25°C tolerance, temp. characteristics, and supply voltage change.

Dimensions



Output Waveform <CMOS>



■ Standby Function

#1 Input	#3 Output		
Level H (0.8 $V_{CC} \le V_{IH} \le V_{CC}$) or OPEN	Operating		
Level L (VIL ≤ 0.2 Vcc)	High impedance		

Crystal Clock Oscillator



NZ2520SEA

High-precision Crystal Clock Oscillator

Specification Number

Overall Frequency	Operating Temperature Range(°C)	Supply Voltage (V)			
Tolerance		+1.8±0.09	+2.5±0125	+3.3±0.165	
±100×10-6	-40 to +125	NSA3513A	NSA3513B	NSA3513C	

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

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

http://www.jinluodz.com