

Crystal Clock Oscillator

NZ2520SEA

High-precision Type

Application

- WiLAN, WiMAX, Bluetooth, PLC, UWB, Car-electronics connection.

Features

This device is a new SPXO of hold over frequency tolerance as tight as $\pm 15 \times 10^{-6}$ (–40 to +85°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. $\pm 15 \times 10^{-6}$ at –40 to +85°C.
- Harmonics level reduce.
- Conventional ratio about -17dBm at Output 40MHz, V_{CC} 2.8V, 2.4GHz band.
- Package Size : 2.5 × 2.0 × 0.9mm



Pb Free

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

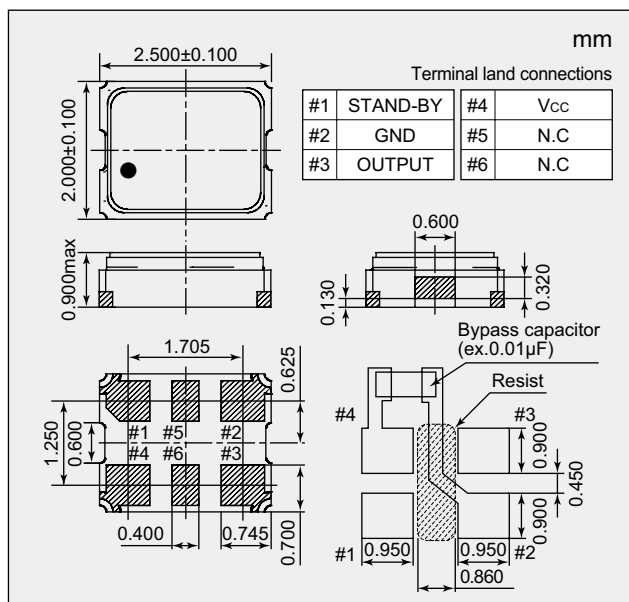
Absolute maximum rating
Supply Voltage (V_{CC}) –0.6 to +6.0 V
Storage Temperature Range –55 to +125 °C

Specifications

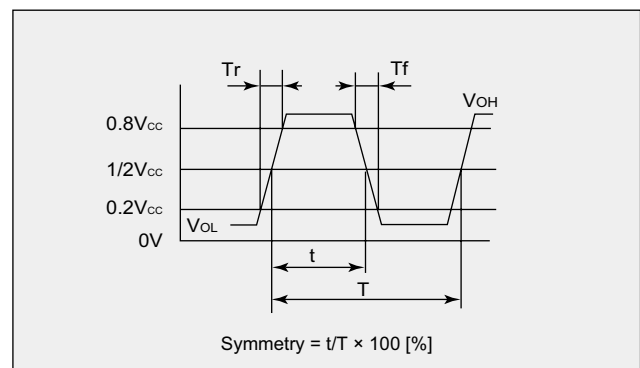
Item	Model	NZ2520SEA	
Output Specification		CMOS	
Nominal Frequency Range	(MHz)	$2.75 \leq F \leq 54$	
Overall Frequency Tolerance *1	($\times 10^{-6}$)	± 15	
Operating Temperature Range	(°C)	–40 to +85	
Supply Voltage	(V)	+1.8 to +3.3	
Current Consumption Max.	During Operation	+25 °C (mA)	3.5 to 8.0
	During Standby	+25 °C (μ A)	10
V_{OL} Max. / V_{OH} Min.	(V)	$0.2 V_{CC} / 0.8 V_{CC}$	
Tr Max. / Tf Max.	(ns)	5 / 5 (at 0.2 to 0.8V _{CC})	
Symmetry Min. to Max.	(%)	45 to 55 (at 1/2V _{CC})	
Load (C _L) Max.	(pF)	15	
Start-up Time Max.	(ms)	10	
Standby function		Available (Three-state)	

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

Dimensions



Output Waveform <CMOS>



Standby Function

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

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■ Specification Number

Overall Frequency Tolerance	Operating Temperature Range(°C)	Supply Voltage (V)			
		+1.8±0.18	+2.5±0.25	+3.0±0.3	+3.3±0.33
±15×10 ⁻⁶	-40 to +85	NSA3513A	NSA3513B	NSA3513D	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.

End of Life
Mar-2021