

Crystal Oscillator

NT3225SB

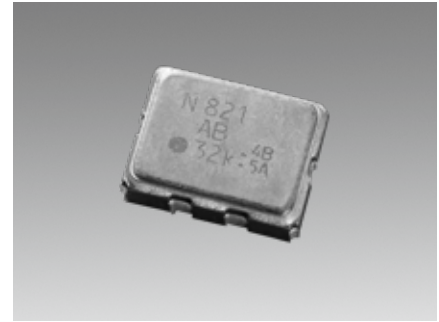
32.768kHz
Digital Temperature Compensated Crystal Oscillator

Main Application

High accuracy time reference and High accuracy time reference for RTC

Features

- Small size SMD type : 3.2 × 2.5 × 1.0mm
- High precision frequency temperature stability : Max. $\pm 7 \times 10^{-6}$ / -40 to +105°C
- Temperature compensated voltage range : +2.0V to +5.5V
- Low current consumption
- Conforms to AEC-Q200



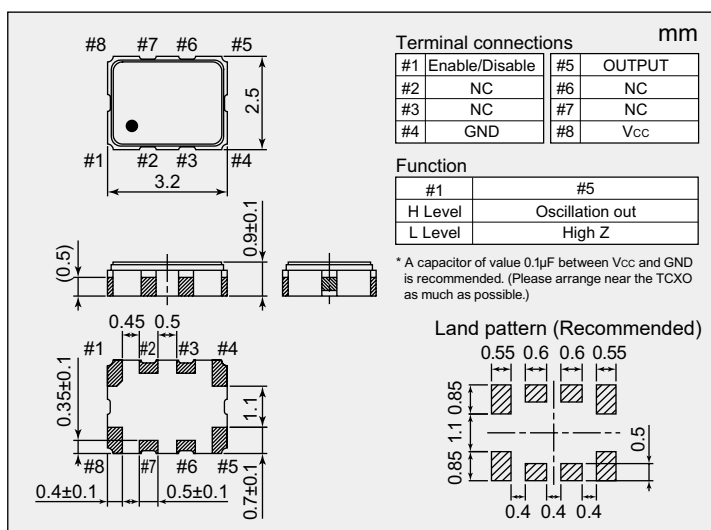
Pb Free

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

Specifications

Item	Model	NT3225SB
Nominal Frequency (kHz)		32.768
Supply Voltage (V)		+2.0 to +5.5
Storage Temperature (°C)		-40 to +105
Operating Temperature (°C)		-40 to +105
Frequency Tolerance	Ta=25±2°C	Max. $\pm 3.0 \times 10^{-6}$
Frequency / Temperature Characteristics	-40 to +105°C	Max. $\pm 7.0 \times 10^{-6}$
	-40 to +85°C	Max. $\pm 5.0 \times 10^{-6}$
	-40 to +60°C	Max. $\pm 3.8 \times 10^{-6}$
Frequency / Voltage Coefficient	V _{CC} =+2.0 to +5.5V, Ta=+25±2°C	Max. $\pm 1.0 \times 10^{-6}$
Current Consumption (µA)	E/D=V _{CC} , V _{CC} =+3.0V, Output at no load	Max. 4.5
	E/D=GND, V _{CC} =+3.0V	Max. 4.0
Low Level Output Voltage (V _{OL})	I _{OL} =50µA	Max. 0.2V _{CC}
High Level Output Voltage (V _{OH})	I _{OH} =-50µA	Min. 0.8V _{CC}
Symmetry Min. to Max. (%)	C _L =15pF	40 to 60%
Rise Time (nsec)	20%V _{CC} →80%V _{CC} , C _L =15pF, V _{CC} =+3V	Max. 70
Fall Time (nsec)	80%V _{CC} →20%V _{CC} , C _L =15pF, V _{CC} =+3V	Max. 70
Start-up Time (sec)	Ta=-40 to +105°C	Max. 3.0
Output Load Condition (pF)	CMOS Output	Max. 15.0
Specification Number		NSC5090A

Dimensions



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