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. ±7×10⁻⁶ / -40 to +105°C
- Temperature compensated voltage range: +2.0V to +5.5V
- Low current consumption
- Conforms to AEC-Q200



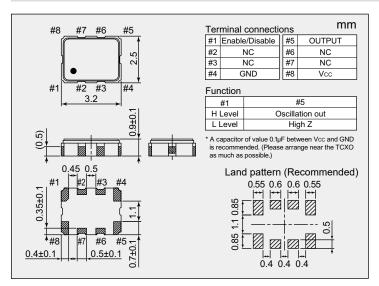




■ Specifications

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. ±3.0×10 ⁻⁶
Frequency / Temperature Characteristics	-40 to +105°C	Max. ±7.0×10 ⁻⁶
	-40 to +85°C	Max. ±5.0×10 ⁻⁶
	-40 to +60°C	Max. ±3.8×10⁻⁶
Frequency / Voltage Coefficient	Vcc=+2.0 to +5.5V, Ta=+25±2 °C	Max. ±1.0×10⁻⁶
Current Consumption (μA)	E/D=Vcc, Vcc=+3.0V, Output at no load	Max. 4.5
	E/D=GND, Vcc=+3.0V	Max. 4.0
Low Level Output Voltage (VoL)	IoL=50μA	Max. 0.2Vcc
High Level Output Voltage (VoH)	Іон= −50μА	Min. 0.8Vcc
Symmetry Min. to Max. (%)	C _L =15pF	40 to 60%
Rise Time (nsec)	20%Vcc→80%Vcc, CL=15pF, Vcc=+3V	Max. 70
Fall Time (nsec)	80%Vcc→20%Vcc, CL=15pF, Vcc=+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.