Crystal Oscillator



NR3225SA

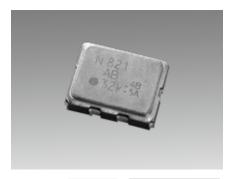
Digital Temperature Compensated RTC Modules

■ Main Application

High accuracy time reference

■ Features

- Small size SMD type: 3.2 x 2.5 x 1.0mm
- High precision frequency temperature stability : Max. ±7×10⁻⁶ / -40 to +105°C
- Temperature compensated voltage range: +2.0 to +5.5V
- Low current consumption
- Frequency selection function: 32.768kHz, 1024Hz, 32Hz, 1Hz
- I2C-BUS serial interface type : 400kHz high speed mode
- · Various function including full calender, alarm and timer
- Conforms to AEC-Q200



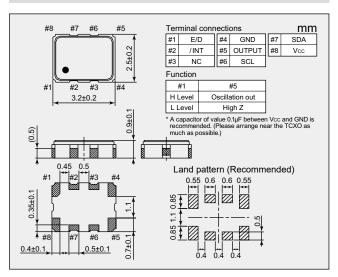




■ Specifications

Item Model		NR3225SA
Nominal Frequency (kHz)		32.768
Temperature Compensation Supply Voltage (Characteristics guaranted) (V)		+2.0 to +5.5
Interface Supply Voltage (V)		+1.5 to +5.5
Time Keeping Supply Voltage (V)		+1.3 to +5.5
Operating Temperature Range (°C)		-40 to +105
Storage Temperature Range (°C)		-40 to +105
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
Current Consumption (μA)	SCL=SDA=/INT=Vcc, E/D=Vcc Output 32.768kHz , Vcc=+3V Output at no load	Max. 4.5
	SCL=SDA=/ INT=Vcc , E/D=GND Non operating output Vcc=+3V	Max. 4.0
Low Voltage Detection Voltage		Min. +1.3
Vol Max. / Voн Min.		0.2Vcc / 0.8Vcc
Tr Max. / Tf Max. (ns)		70
Symmetry Min. to Max. (%)		40 to 60
Output Load Condition (pF)	CMOS Output	15.0
Start-up Time (sec)	Ta= -40 to +105°C	Max. 3.0
Specification Number		NSA3646A

■ Dimensions



■ Pin Function

Pin Name	1/0	Function
Enable/Disable	ı	Input to control the output mode of the OUTPUT
/ INT	0	Outputs for alarm signals, timer signals timer update signals and other signals
GND	-	
OUTPUT	0	32.768kHz signal output (CMOS output)
SCL	ı	Serial clock input for I2C BUS communications
SDA	1/0	Serial data input output for I2C BUS communications
Vcc	-	This pin is connected to a positive power supply

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