

RV-8263-C8

Low Power I²C bus RTC

- Low Power consumption 190nA typ.
- Year, month, date, weekday, hours, minutes, seconds
- Programmable alarm, timer and offset
- AEC-Q200 compliant option
- Compliant with I²C-Bus interface (400kHz)



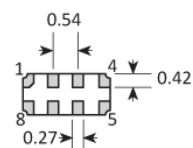
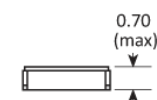
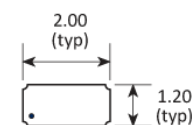
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency tolerance	
±20ppm	B
Qualification	
Any	
Commercial	
AEC-Q200 (Automotive)	A

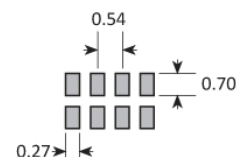
SPECIFICATIONS

Frequencies (selectable)	32.768kHz down to 1Hz
Dimensions	2.0 x 1.2 x 0.7mm
Turnover temperature (T_0)	+25°C ±5°C
Frequency / temp coefficient	-0.035ppm/°C ² ±10%
Operating temperature range	-40 to +85°C
Storage temperature range	-55 to +125°C
Supply voltage (V_{DD})	I ² C bus active 1.8 ~ 5.5V Time-keeping mode 0.9 ~ 5.5V
Supply current (during access)	18µA typ (f _{scl} =400kHz, V_{DD} =3V)
Ageing	±3ppm max first year
Supply current (time-keeping)	190/240nA typ/max (f _{scl} =0Hz, V_{DD} =3V)
Shock and vibration resistance	±5ppm, 5,000g, 0.3ms, ½ sine ±5ppm, 20g, 10.0 ~ 2,000Hz
Soldering condition	Reflow, 260°C, 20 sec max
Net mass	5.1mg

PACKAGE DRAWING



SOLDER PAD LAYOUT



TOP VIEW

PAD	CONNECTION	PAD	CONNECTION
1	Serial data (SDA)	5	Supply voltage (VDD)
2	Clock output enable (CLKOE)	6	Not connected
3	Interrupt output ($\overline{\text{INT}}$)	7	Frequency output (CLKOUT)
4	Ground (VSS)	8	Serial clock input (SCL)

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the RV-8263-C8 please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

APPLICATIONS

The RV-8263-C8 real time clock is a versatile component suitable for a wide range of applications and uses including:

Automotive
Health Care
IoT
Industrial
Metering
Portable Devices
Wearables

HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to <500V)



Moisture Sensitivity Level (MSL): 1 (or not applicable)

TECHNICAL RESOURCES

[RV-8263-C8_App-Manual.pdf](#)

STANDARD FREQUENCIES

32.7680 kHz

CONSTRUCTION

Ceramic package
Hermetically sealed with metal lid
Gold flashed pads

COMPLIANCE



Lead-free (< 0.1% by weight)



RoHS compliant with no exemptions. [See our](#)

[declaration](#)



REACH compliant. [See our statement](#)



Free of conflict minerals. [See our declaration](#)



Free of Halogens. [See our declaration](#)



Free of Ozone-depleting substances. [See our](#)

[declaration](#)

SUPPLY PARTNER



The RV-8263-C8 is manufactured by Micro Crystal and stocked and supplied by Golledge.