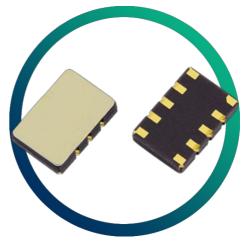


# RV-3149-C3

# **RTC SPI Bus**

- Temperature compensated accuracy
- AEC-Q200 compliant option
- Ultra-miniature castellated package
- Compliant with 4-wire SPI bus
- Backup battery input (internal switchover)



# **CONFIGURABLE OPTIONS**

Parameter	Option Code
Time accuracy	
Any	
Option A (see specifications table)	А
Option B (see specifications table)	В
Operating temperature range	
Any	
-40 to +85°C	
-40 to +125°C	
Qualification	
Any	
Commercial	
AEC-Q200 (Automotive)	А



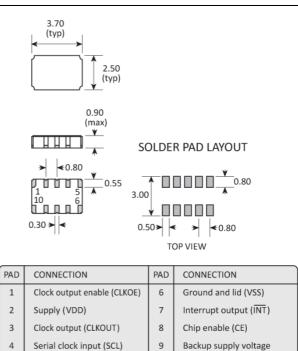
# SPECIFICATIONS

Frequencies  32.768kHz, 1024Hz, 32Hz & 1Hz    (selectable)
Frequency    ±10ppm typ, ±20ppm max      tolerance @    25°C      Time    ±3ppm max (0.26s/day), 25°C      accuracy    ±4ppm max (0.35s/day), -0+50°C      (option A)    ±5ppm max (0.43s/day), -10+60°C
tolerance @      25°C      Time    ±3ppm max (0.26s/day), 25°C      accuracy    ±4ppm max (0.35s/day), -0+50°C      (option A)    ±5ppm max (0.43s/day), -10+60°C
accuracy ±4ppm max (0.35s/day), -0+50°C (option A) ±5ppm max (0.43s/day), -10+60°C
(option A) ±5ppm max (0.43s/day), -10+60°C
±6ppm max (0.52s/dav), -40+85°C
±8ppm max (0.69s/day), -40+125°C
Time ±3ppm max (0.26s/day), 25°C
accuracy ±5ppm max (0.43s/day), -0+50°C
(option B) ±10ppm max (0.86s/day), -10+60°C
±25ppm max (2.16s/day), -40+85°C
±30ppm max (2.59s/day), -40+125°C
Storage -55 to +125°C
temperature
range
Supply Ditigally temperature compensated 2.1 ~ 5.5V
voltage SPI bus active 1.4 ~ 5.5V
(V <sub>DD</sub> ) Time-keeping mode 1.3 ~ 5.5V
Supply 0.80µA typ, 1.0µA max
current
(V <sub>DD</sub> =3.0V)
Shock and ±5ppm, 5,000g, 0.3ms, ½ sine
vibration ±5ppm, 20g, 10.0 ~ 2,000Hz
resistance
Soldering Reflow, 260°C, 20 sec max
condition

### **PACKAGE DRAWING**

5

Serial data output (SDO)



10

Dimensions in mm

Serial data input (SDI)



## **ORDERING INFORMATION**

To request a quotation for the RV-3149-C3 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

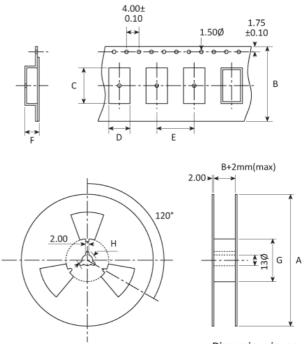
The RV-3149-C3 real time clock is a versatile component suitable for a wide range of applications and uses including:

Automotive including car radio, GPS and other tracking systems, dashboard devices, tachometers, entertainment systems, and engine control Industrial and consumer electronics Metering including E-meter and heating counters Outdoor including ATM and POS systems, surveillance and safety systems, and ticketing systems Portable devices White goods

#### **TECHNICAL RESOURCES**

RV-3149-C3\_App-Manual.pdf

#### **TAPE & REEL SPECIFICATION**



Dimensions in mm

A:178 / B:12 / C:4 / D:2.7 / E:4 / F:1 / G:61.5 / H:21



#### **HANDLING & STORAGE**



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



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

## CONSTRUCTION

Ceramic package with metal lid





Lead-free (< 0.1% by weight )



RoHS compliant with no exemptions. See our declaration



**REACH** compliant. See our statement



Au Ta Sn W Free of conflict minerals. See our declaration



Free of Halogens. See our declaration

See our

Free of Ozone-depleting substances.

declaration

# SUPPLY PARTNER



The RV-3149-C3 is manufactured by Micro Crystal and stocked and supplied by Golledge.