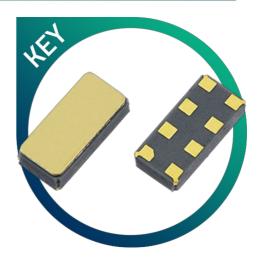


RV-3028-C7

Ultra-low Power I²C RTC Module

- Ultra-Low power consumption of 45nA
- Wide operating voltage of 1.1 ~ 5.5V
- Battery switch over
- AEC-Q200 compliant option
- Previously named RV3028C7



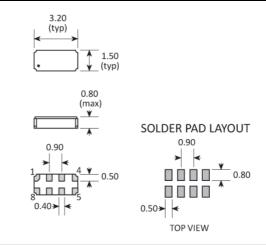
CONFIGURABLE OPTIONS	
Parameter	Option Code
Qualification	
Any	
Commercial	
AEC-Q200 (Automotive)	А



SPECIFICATIONS

Frequencies 32.768kHz, 8192Hz, 1024Hz, 64Hz, 32Hz, 1Hz (selectable)	,
	-
Dimensions 3.2 x 1.5 x 0.8mm	
Time ±1ppm max @ 25°C	
accuracy	
Turnover +25°C ±5°C	
temperature	
(T_0)	
Frequency / -0.035 ppm/°C ² ±10%	
temp	
coefficient	
Operating -40 to +85°C	
temperature	
range	
Storage -55 to +125°C	
temperature	
range	
Supply 1.2 ~ 5.5V (I ² C bus active)	
voltage 1.1 ~ 5.5V (timekeeping)	
Supply 45/60nA typ/max, V _{DD} =3V	
current	
Ageing ±3ppm max first year @25°C	
Shock and ±5ppm, 5,000g, 0.3ms, ½ sine	
vibration ±5ppm, 20g, 10.0 ~ 2,000Hz	
resistance	
resistance Soldering Reflow, 260°C, 20-40sec	

PACKAGE DRAWING



PAD	CONNECTION	PAD	CONNECTION
1	Frequency output (CLKOUT)	5	Ground (VSS)
2	Interrupt output (INT)	6	Backup supply voltage(VBK)
3	Serial clock input (SCL)	7	Supply voltage (VDD)
4	Serial data (SDA)	8	Event input (EVI)

Dimensions in mm



ORDERING INFORMATION

To request a quotation for the RV-3028-C7 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.

TECHNICAL RESOURCES

RV-3028-C7 App-Manual.pdf

APPLICATIONS

The RV-3028-C7 real time clock is a versatile component suitable for a wide range of applications and uses including:

Automotive

Health Care

IoT

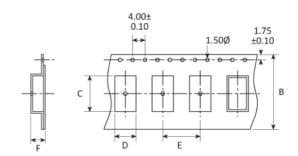
Industrial

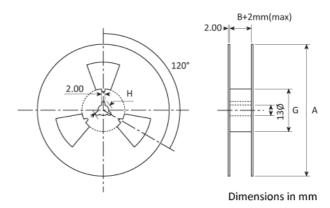
Metering

Portable Devices

Wearables

TAPE & REEL SPECIFICATION





A:178 * / B:12 / C:3.5 / D:1.8 / E:4.0 / F:1.0 / G:61 / H:21 * Larger reel sizes are available





HANDLING & STORAGE



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

CONSTRUCTION

SON 8-pin ceramic package with metal lid



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

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-3028-C7 is manufactured by Micro Crystal and stocked and supplied by Golledge.

OTHER INFORMATION

An evaluation/development board for the RV-3028-C7 is also available on request. Please contact our expert advisers at sales@golledge.com for more information.

BLOCK DIAGRAM

