


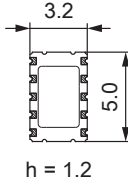
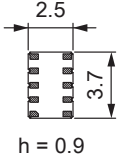
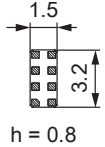


RTC Modules in Ceramic Packages

Product Type	RV-xxxx-C2	RV-xxxx-C3	RV-xxxx-C7
Dimensions (l × w × h) mm	5.0 x 3.2 x 1.2	3.7 x 2.5 x 0.9	3.2 x 1.5 x 0.8
			
			
Lid Material	Glass	Metal	Metal

I²C-Bus Interface

Product Type	Main Feature	Bus	Time Accuracy	Supply V _{DD} V	Current I _{DD} nA	T _{OP} °C	Offset Comp.	Temp. Comp.	Backup Switch	Trickle Charge	Event Input	RAM Bytes	EEPROM Bytes
RV-3028-C7	X-Treme Low Power	I ² C	±1 ppm @ 25°C Factory calibrated	1.1 to 5.5	40	-40 to +85	3		3	3	3	2	43
RV-4162-C7	Standard	I ² C	±20 ppm @ 25°C	1.0 to 4.4	350	-40 to +85	3						
RV-8263-C7	Standard	I ² C	±20 ppm @ 25°C	0.9 to 5.5	190	-40 to +85	3					1	
RV-8564-C2	Standard	I ² C	±20 ppm @ 25°C	1.2 to 5.5	250	-40 to +85							
RV-8564-C3	Standard	I ² C	±20 ppm @ 25°C	1.2 to 5.5	250	-40 to +85							
RV-2251-C3	Power Management	I ² C	±20 ppm @ 25°C	0.9 to 5.5	210	-40 to +85	3		3	3		1	
RV-5387-C3	3 Interrupt Outputs	I ² C	±20 ppm @ 25°C	1.5 to 5.5	350	-40 to +85	3						
RV-8523-C3	Ultra Low Power	I ² C	±20 ppm @ 25°C	1.2 to 5.5	130	-40 to +85	3		3				
RV-1805-C3	X-Treme Low Power	I ² C	±2 ppm @ 25°C Factory calibrated	1.5 to 3.6	60	-40 to +85	3		3	3	3	256	
RV-3129-C3	Temperature Comp.	I ² C	A ±6 ppm @ -40°C to +85°C B ±25 ppm @ -40°C to +85°C	1.3 to 5.5	800	-40 to +125		3	3	3		8	2
RV-8803-C7	Temperature Comp.	I ² C	±3 ppm @ -40°C to +85°C ±7 ppm @ +85°C to +105°C	1.5 to 5.5	240	-40 to +105	3	3			3	1	

SPI-Bus Interface

Product Type	Main Feature	Bus	Time Accuracy	Supply V _{DD} V	Current I _{DD} nA	T _{OP} °C	Offset Comp.	Temp. Comp.	Backup Switch	Trickle Charge	Event Input	RAM Bytes	EEPROM Bytes
RV-8063-C7	Standard	SPI	±20 ppm @ 25°C	0.9 to 5.5	190	-40 to +85	3					1	
RV-2123-C2	Ultra Low Power	SPI	±20 ppm @ 25°C	1.1 to 5.5	130	-40 to +85	3						
RV-3149-C3	Temperature Comp.	SPI	A ±6 ppm @ -40°C to +85°C B ±25 ppm @ -40°C to +85°C	1.3 to 5.5	800	-40 to +125		3	3	3		8	2

Applications

System power management can be greatly enhanced using Micro Crystals high precision, low power RTC modules:

- IoT
- POS, SPS Control
- Metering, Smart Meter
- Battery Management System
- Automotive, GPS and Drive Recorder
- Industrial, Computing, Embedded Systems
- Wearables, Activity Bands, Sports Monitors
- Health Care, Glucose Meters, Drug Dispensers
- IP Cameras, Alarm and Building Control, Telemetry

Ordering Information

RV - 3129 - C3 Option A TA QC

RTC module

Product type

Package size
C2 = 5.0 x 3.2 x 1.2 mm
C3 = 3.7 x 2.5 x 0.9 mm
C7 = 3.2 x 1.5 x 0.8 mm

Time accuracy
Option A = ±6 ppm @ -40°C to +85°C
Option B = ±25 ppm @ -40°C to +85°C

Qualification
QC = Commercial Grade (Standard)
QA = Automotive Grade AEC-Q200

Temperature range
TA = -40 to +85°C (Standard)
TB = -40 to +125°C

Linux Drivers available

