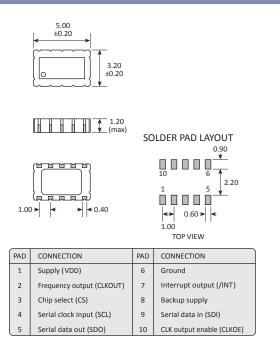
Real Time Clock - SPI Bus





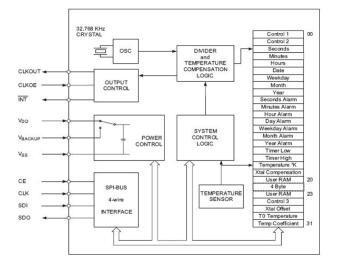




Features

- Temperature compensated accuracy
- AEC Q200 Rev C compliant
- Compliant with 4-wire SPI-Bus
- Backup battery input (internal switchover)
- Programmable alarm, timer and interrupt

Block Diagram



Specifications

Parameters	Product	Option
	RV3049C2	Codes
Frequencies (selectable): 32.768kHz, 1024Hz, 32Hz & 1Hz		
Frequency tolerance @ 25°C: ±10ppm typ, ±20ppm max		
Time accuracy: ±3ppm max (0.26s/day) @ 25°C ±6ppm max (0.52s/day), -40+85°C ±25ppm max (2.17s/day), -40+85°C ±8ppm max (0.70s/day), -40+125°C ±30ppm max (2.60s/day), -40+125°C		A B D E
Operating temperature range: -40 to +85°C		
Extended op. temp range: -40 to +125°C		
Storage temperature range: -55 to +125°C		
Supply voltage (V _{DD}): SPI bus active 1.8 ~ 5.5V Time-keeping mode 1.3 ~ 5.5V	:	
Supply current (V_{DD}=3.0V): 0.80μA typ, 1.0μA max		
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		

Standard. Dotional - Please specify required code(s) when ordering

Ordering Information

Product + option code eg: **RV3049C2/B** ±25ppm -40+85°C Option code X (eg RV3049C2/X) denotes a custom spec.

Available on T&R - 1k or 5k pcs per reel. See our website for details
 Evaluation / development board & manual available on request

Description

The RV3049C2 is a Real-Time-Clock Module with embedded crystal. This RTC has a 4-wire serial interface (SPI-Bus) and offers temperature compensated time. The STC (Smart Temperature Compensation) can be factory calibrated to achieve a very high time accuracy of \pm 6ppm over -40°C to +85°C (option A) and \pm 8ppm from -40°C to +125°C (option C).

Beside standard RTC functions, it includes a Backup Battery Input with internal switchover function, a programmable trickle-charge circuitry, an integrated temperature sensor with digital-output and offers 8 Bytes RAM and 2 Bytes EEPROM for customer application.

The calendar function tracks year and leap-year flags. The clock tracks second, minute and hour in 24-hour format. Programmable alarm setting and universal timer functions increase flexibility.



Manufactured by Micro Crystal
Stocked & supplied by Golledge

