imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

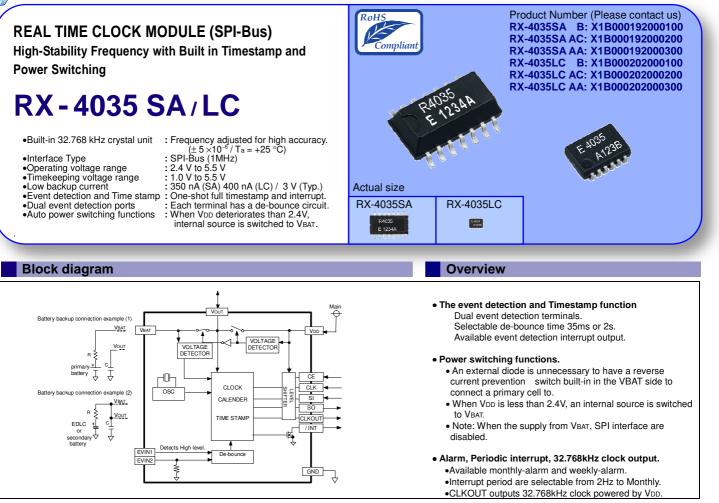


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SEIKO EPSON CORPORATION



Pin function

Signal Name	Input / Output	Function	
VBAT	Ι	Power supply for backup.	
Vout	Output	Switched power out. (maximum output current 20mA)	
CE	Input	SPI chip enable.	
CLK	Input	SPI serial clock.	
SO	Output	SPI data out.	
SI	Input	SPI data in.	
GND	Ι	Ground	
EVIN1	Input	Event detection input 1	
EVIN2	Input	Event detection input 2	
/ INT	Output	Interrupt out.	
CLKOUT	Output	32.768kHz output. (CMOS. Can not inhibit.)	
N.C.	-	Do not connect.	
Vdd	-	Main power supply.	

Specifications (characteristics)

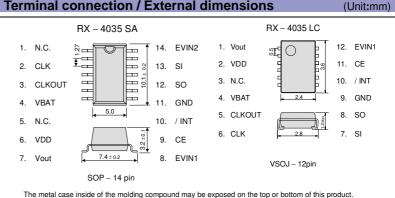
Recommended Operating Conditions						
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Operating voltage	VACCESS	Vdd	2.4	3.0	5.5	V
Time keeping voltage	VCLK	VBAT	1.0	3.0	5.5	V
Operating temperature	TOPR	—	-40	+25	+85	°C
Storage temperature	Tstg	—	-55	—	+125	°C

Frequency characteristics

Item	Symbol	Conditions	Rating	Unit
Frequency tolerance	Δf/f	Ta = +25℃ VBAT = 3.0 V	B: 5 ± 23 *1) AA: 5 ± 5 * ²⁾ AC: 0 ± 5 * ²⁾	× 10 ⁻⁶
Oscillation start-up time	t sta	Ta = +25 ℃ VDD = 3.0 V	1 Max.	s
Frequency / voltage characteristics	f / V	Ta = +25 ℃ VDD = 2.4 V to 5.5 V	±1 Max.	$ imes 10^{-6}$

Equivalent to 1 minute of monthly deviation (excluding offset.) *2) Equivalent to 13 seconds of monthly deviation (excluding offset.)

Terminal connection / External dimensions



This purely cosmetic and does not have any effect on quality, reliability or electrical specs.

*Stop using the glue Any glue must never use it after soldering LC-package to a circuit board. This product has glass on the back side of a package. When glue invasions between circuit board side and glass side, then glass cracks by thermal expansion of glue. In this case a crystal oscillation stops. Consider glue abolition or glue do not touch to LC-package

* Refer to application manual for details.

■ Current consumption characteristics T _a = -40 °C to +85 °C						+85 °C
Item	Symbol	Conditions Min.		Тур.	Max.	Unit
Current Consumption	Іват	RX-4035SA VBAT = 3.0V, VDD = 0.0V CE = 0V, CLKOUT = open		350	1200	nA
	IDAI	RX-4035LC VBAT = 3.0V, VDD = 0.0V CE = 0V, CLKOUT = open	-	400	1200	ΠA
	IDD	VDD = 3.0V CE = 0V CLKOUT = open	-	1.40	2.50	μA

Power supply detection voltage				Ta = -40 °C to +85 °C		
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit
Voltage of low battery detection	VLOW	-	1.10	1.25	1.40	V
Power switching voltage (VDD to VBAT)	Vd2b	+25°C	2.328	2.40	2.472	V

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs,

Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired ISO/TS 16949 certification that is requested strongly by major automotive manufacturers as standard.

Explanation of the mark that are using it for the catalog

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

ISO/TS16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

Pb Free	► Pb free.
RoHS	Complies with EU RoHS directive. *About the products without the Pb-free mark.
Compliant	Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)
For Automotive	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
Automotive Safety	Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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