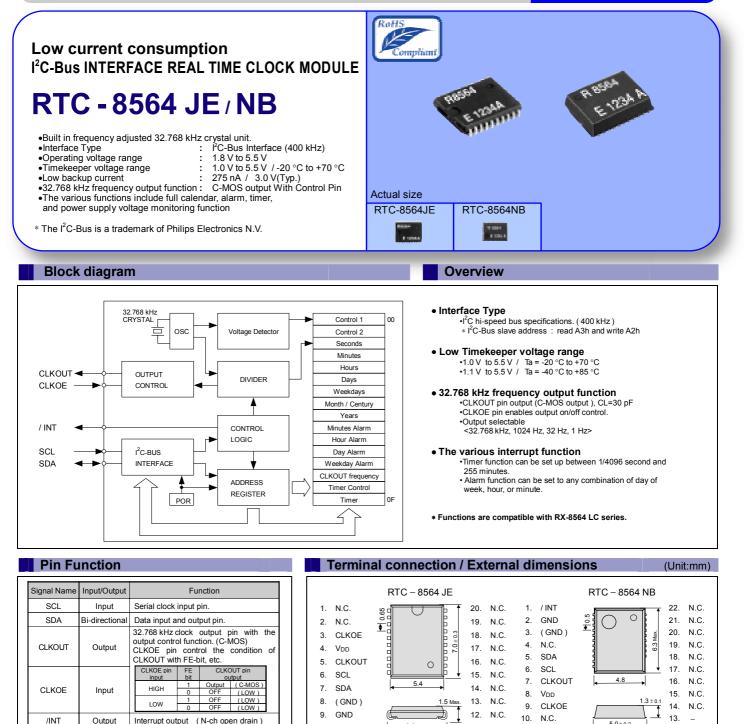
Real time clock module



Specifications (characteristics)

Output

Vdd

GND

Item	Symbol	Condition	Min.	Тур.	Max.	Unit
Power voltage	VDD	_	1.8	3.0	5.5	V
Clock voltage	VCLK	_	VLOW	3.0	5.5	V
Operating temperature	TOPR	—	-40	+25	+85	°C
Low voltage	1	i i i i i i i i i i i i i i i i i i i				
Item	Symbol	Condition		Тур.	Max.	Unit
Low voltage detection	VLOW	Ta = -20 °C ~ +70 °C		0.9	1.0	V
		Ta = -40 °C ~ +85 °C		0.9	1.1	V
Frequency c	haracteri	stics				
	Symbol	Condition		Rating		Unit
Item		Ta = +25 °C VDD = 3.0 V		5 ± 23 *		

Interrupt output (N-ch open drain)

Connected to a ground

Connected to a positive power supply.

* Refer to application manual for details.

 5.0 ± 0.2

SON - 22 pin

12.

DC characteristics						Ta = -40 °C to +85 °C			
Item	Symbol	Condition		Min.	Тур.	Max.	Unit		
Current Consumtion	ВК	fsc∟ = 0 Hz CLKOE = GND	VDD = 5 V		330	800	nA		
		CLKOUT ; output OFF (LOW)	VDD = 3 V		275	700			
	32k	fscL = 0 Hz CLKOE = VDD CLKOUT ; 32.768 kHz output ON (Output=OPEN ; CL = 0 pF)	VDD = 5 V		2.5	3.4	μA		
			VDD = 3 V		1.5	2.2			

11. N.C

Metal may be exposed on the top or bottom of this product. This will not affect any quality, reliability or electrical spec.

 6.0 ± 0.2

VSOJ - 20 pin

11. N.C.

10. / INT

"3D STRATEGY" EPSON TOYOCOM

In order to meet customer needs in a rapidly advancing digital, broadband and ubiquitous society, we are committed to offering products that are one step ahead of the market and a rank above the rest in quality. To achieve our goals, we follow a "3D (three device) strategy" designed to drive both horizontal and vertical growth. We will to grow our three device categories of "Timing Devices", "Sensing Devices" and "Optical Devices", and expand vertical growth through a combination of products from these categories. Quartz devices have become crucial in the network environment where products are increasingly intended for broadband, ubiquitous applications and where various types of terminals can transfer information almost immediately via LAN and WAN on a global scale. Epson Toyocom Corporation addresses every single aspect within a network environment. The new corporation offers "Digital Convergence" solutions to problems arising with products for consumer use, such as, core network systems and automotive systems.

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Epson Toyocom, 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. In the future, new group companies will be expected to acquire the certification around the third year of operations.

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.

WORKING FOR HIGH QUALITY

Epson Toyocom quickly began working to acquire company-wide ISO 9000 series certification, and has acquired ISO 9001 or ISO 9002 certification for all targeted products manufactured in Japanese and overseas plants.

Epson Toyocom has acquired QS-9000 certification, which is of a higher level.

Also, TS 16949 certification, which is also of a higher level, has been acquired.

QS-9000 is an enhanced standard for quality assurance systems formulated by leading U.S.automobile manufacturers based on the international ISO 9000 series. ISO/TS 16949 is a global standard based on QS-9000, a severe standard corresponding to the requirements from the automobile industry.

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- / Medical instruments to sustain life / Submarine transmitters / Power stations and related / Fire work equipment and security equipment / traffic control equipment / and others requiring equivalent reliability.
- In this new crystal master for Epson Toyocom, product codes and markings will remain as previously identified prior to the merger. Due to the on-going strategy of gradual unification of part numbers, please review product codes and markings, as they will change during the course of the coming months.

We apologize for the inconvenience, but we will eventually have a unified part numbering system for Epson Toyocom that will be user friendly.

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