

Signal Name	Input/Output	Function					
SCL	Input	Input Serial clock input pin.					
SDA	Bi-directional	Data input a	nd out	put pin.			
CLKOUT	Output	32.768 kHz clock output pin with the output control function. (C-MOS) CLKOE pin control the condition of CLKOUT with FE-bit, etc.					
CLKOE	Input	CLKOE pin input HIGH LOW	FE bit 1 0 1 0		OUT pin ttput (C-MOS) (LOW) (LOW) (LOW)		
/INT	Output	Interrupt output (N-ch open drain)					
Vdd	—	Connected to a positive power supply.					
GND	-	Connected to a ground.					

Real time clock module



SEIKO EPSON CORPORATION

The metal case inside of the molding compound may be exposed on the top or bottom of this product. 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

Specifications (characteristics)

Recommende	d Operati	ng Conditions				
Item	Symbol	Conditions	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

2. N.C.

3.

4. VDD

5. 6.

7. SDA

8. 9.

10.

SCL

/ INT

Low voltage detection							
Item	Symbol		Conditions	Тур.	Max.	Unit	
Low voltage detection	VLOW	JE,NB	Ta = -20 °C ~ +70 °C		0.9	1.0	V
			Ta = -40 °C ~ +85 °C		0.9	1.1	V
		LC	Ta = -20 °C ~ +70 °C		0.9	1.2	V
			Ta = -40 °C ~ +85 °C		0.9	1.3	V
Frequency characteristics							
Item	Symbol	Conditions			Rating		
Frequency tolerance	Δf/f	Ta = +25 °C Vpp = 3.0 V		B: 5 \pm 23 *		× 10 ⁻⁶	
* Please ask for tighter tolerance. (Equivalent to ±1 minute of monthly deviation)							

 Current consumption characteristics 					Ta = -40 °C to +85 °C			
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit		
Current Consumtion	вк	fscL = 0 Hz CLKOE = GND CLKOUT ; output OFF (LOW)	VDD = 5 V	-	330	800	- nA	
			VDD = 3 V	-	275	700		
	I32k CL 32	fscL = 0 Hz CLKOE = VDD CLKOUT ; 32.768 kHz output ON (Output=OPEN ; CL = 0 pF)	VDD = 5 V	-	2.5	3.4		
			VDD = 3 V	-	1.5	2.2	μA	

* Refer to application manual for details.

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