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.

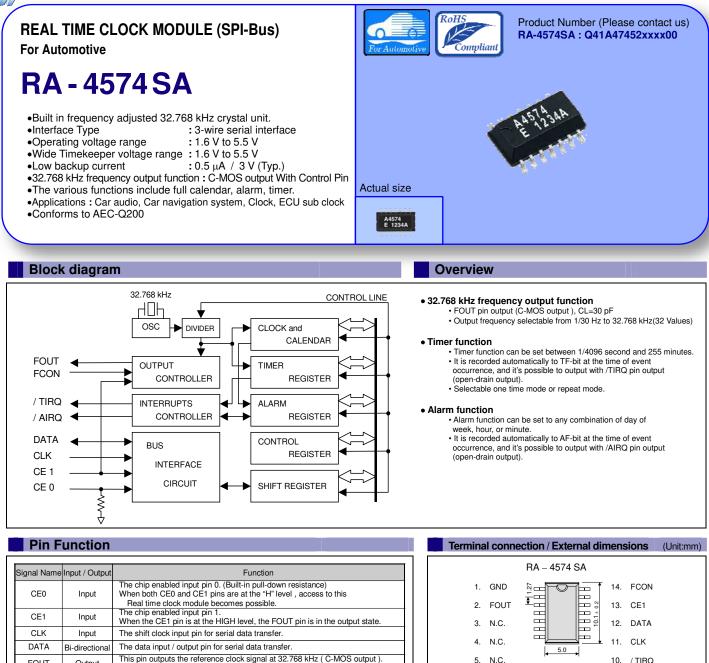
We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Signal Name	Input / Output	Function
CE0	Input	The chip enabled input pin 0. (Built-in pull-down resistance) When both CE0 and CE1 pins are at the "H" level , access to this Real time clock module becomes possible.
CE1	Input	The chip enabled input pin 1. When the CE1 pin is at the HIGH level, the FOUT pin is in the output state.
CLK	Input	The shift clock input pin for serial data transfer.
DATA	Bi-directional	The data input / output pin for serial data transfer.
FOUT	Output	This pin outputs the reference clock signal at 32.768 kHz (C-MOS output). High impedance at the time of output off.
FCON	Input	The input pin for the FOUT output control.
/ AIRQ	Output	The open drain output pin for alarm and time update interrupts.
/ TIRQ	Output	The open drain output pin for timer interrupt.
Vdd	—	Connected to a positive power supply.
GND	_	Connected to a ground.

Specifications (characteristics)

Real time clock module

Recommended Operating Conditions							
Item Symbol		Conditions Min.		Тур.	Max.	Unit	
Power voltage	Vdd	_	1.6	3.0	5.5	V	
Clock voltage	VCLK		1.6	3.0	5.5	V	
Operating temperature	Topr		-40	+25	+85	°C	

Frequency characteristics

B: 5 ± 23 *	× 10 ⁻⁶
	~ 10
3 Max.	S
	3 Max.

■ Current consumption characteristics T _a = -40 °C to +85 °C							
Item	Symbol	Conditions		Min.	Тур.	Max.	Unit
Current Consumption	Івк	CE0, CE1 = GND FOUT ;Output OFF (Hi - z)	VDD = 5 V	-	1.0	2.0	μA
			VDD = 3 V	-	0.5	1.0	
	Ізак	CE0 = GND CE1 = VDD	VDD = 5 V	-	8.0	20.0	μA
		FOUT ; 32.768 kHz output ON CL = 30 pF	VDD = 3 V	-	5.0	12.0	

6. N.C.

7. VDD

quality, reliability or electrical specs

9. / AIRQ

8. CE0

3.2

* Refer to application manual for details.

 7.4 ± 0.2

SOP - 14 pin 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

SEIKO EPSON CORPORATION

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.

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