Epson Toyocom

Bu龍洞男子68以及古典文章, High Stability SERIAL-INTERFACE REAL TIME CLOCK MODULE

RX-4801 SA

•Built in frequency adjusted 32.768 kHz crystal unit and DTCXO.

 Interface Type : 4-wire serial interface

•Interface voltage range : 1.8 V to 5.5 V •Temp.compensated voltage range: 2.2 V to 5.5 V

•Wide Timekeeper voltage range : 1.6 V to 5.5 V

•32.768 kHz frequency output function : C-MOS output With Control Pin

•The various functions include full calendar, alarm, timer.



Product Number (Please contact us) RX-4801SA: X1B000021xxxx00





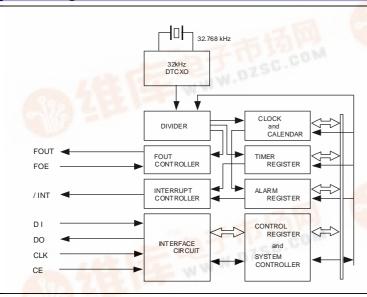


Actual size





Block diagram



Overview

- High Stability
 - UA ± 1.9 x 10⁻⁶ / 0 °C to +40 °C
 - (Equivalent to 5 seconds of month deviation) $\pm 3.4 \times 10^{-6}$ / -40 °C to +85 °C

 - (Equivalent to 9 seconds of month deviation)
- •UB
 - ± 3.8 x 10⁻⁶ / 0 °C to +50 °C
 - (Equivalent to 10 seconds of month deviation) $\pm 5.0 \times 10^{-6}$ / $-40 \, ^{\circ}\text{C}$ to $+85 \, ^{\circ}\text{C}$

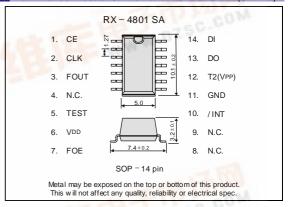
 - (Equivalent to 13 seconds of month deviation)
- 32.768 kHz frequency output function
 - FOUT pin output (C-MOS output), CL=30 pF
 - Output selectable
 - < 32.768 kHz, 1024 Hz, 1 Hz >
- The various interrupt
 - Timer Function can be set up between 1/4096 second and 255 minutes.
 - · Alarm Function can be set to day of week, day, hour, or minute.

Pin Function

Signal Name	Pin No.	1/0	Function
CE	1	input	The chip enable input pin.
CLK	2	input	The shift clock input pin for serial data transfer.
FOUT	3	Output	The pin outputs the refarence clock signal. (CMOS output)
TEST	5	input	* Use by the manufacture for testing. (Do not connect externally.)
VDD	6	-	Connected to a positive power supply
FOE	7	input	The input pin for the FOUT output control.
/ INT	10	Output	The open drain output for interrupt.
GND	11		Connected to a ground
T2(VPP)	12	4-4	* Use by the manufacture for testing. (Do not connect externally.)
DO	13	Output	The data output pin for serial data transfer.
DI	14	input	The data input pin for serial data transfer.

Terminal connection / External dimensions

(Unit:mm)

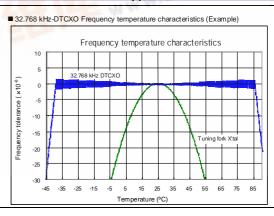


Specifications (characteristics)

Item Symbol Condition Typ Max. Unit Interface voltage Interface voltage Temp. compensated VTEM Temp. compensated voltage V 3.0 Clock voltage VCLK 1.6 3.0 5.5 V Operating temperatue TOPR +25 +85 °C Ta = 0 °C to +40 °C ±1.9* Ta = -40 °C to +85 °C ±3.4*2 \times 10 $^{-6}$ $\Delta f/f$ Stability Ta = 0 °C to +50 °C ±3.8*3 Ta = -40 °C to +85 °C Backup Mode FOE = GND, Current consumption VDD = 5V1.2 3.4 /INT = VDD μА Current consumption FOUT output : OFF VDD = 3V

1) Equivalent to 5 seconds of month deviation. *2) Equivalent to 9 seconds of month deviation. 4 Equivalent to 10 seconds of month deviation. 4 Equivalent to 13 seconds of month deviation.

* Refer to application manual for details.





查询"RX-48QMEMS" 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.

A Quartz MEMS is any high added value quartz device that exploits the characteristics of quartz crystal material but that is produced using MEMS (micro-electro-mechanical system) processing technology.

Market needs are advancing faster than previously imagined toward smaller, more stable crystal products, but we will stay ahead of the curve by rolling out products that exceed market speed and quality requirements. We want to further accelerate the 3D strategy by QMEMS.

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.

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

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.

WORKING FOR HIGH QUALITY

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

Epson Toyocom 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.

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.

► Explanation of the mark that are using it for the catalog

Ph	▶ Pb free. ▶ Complies with EU RoHS directive.	
Rolls	 ▶ Pb free terminal designed. Contains Pb in products exempted by RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.) ▶ Complies with EU RoHS directive. 	
For Automotive	▶The products have been designed for high reliability applications such as Automotive.	

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- 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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