тсхо

TG-3541CE

•Output frequency • Built-in 32.768 kHz-DTCXO : 32.768 kHz

Supply voltage

• Frequency tolerance

XA

 $\pm 3.4 \times 10^{-6}$ / -40 °C to +85 °C $\pm 8.0 \times 10^{-6}$ / +85 °C to +105 °C

 \pm 5.0 x 10⁻⁶ / -40 °C to +85 °C

 \pm 8.0 x 10⁻⁶ / +85 °C to +105 °C



: 1.5 V to 5.5 V





Product Number (Please contact us) TG-3541CE: X1B000351xxxx00



TG-3541CE $(3.2 \times 2.5 \times 1.0 \text{ mm})$

Actual size

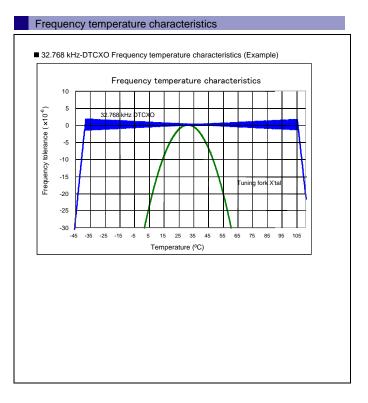
TG-3541CE

Specifications (characteristics)

Item	Symbol	Specifications		Conditions
Output frequency range	Fo	32.768 kHz		
Supply voltage	VCC	1.5 V to 5.5 V		
Storage temperature	T_stg	-55 °C to +125 °C		
Operating temperature	T_use	-40 °C to +105 °C		
Frequency tolerance		ХА	±3.4 *1	Ta = -40 °C ~ +85 °C
	f_tol		±8.0 *2	Ta = +85 °C ~ +105 °C
		ХВ	±5.0 *3	Ta = -40 °C ~ +85 °C
			±8.0 *2	Ta = +85 °C ~ +105 °C
Current consumption	Icc	1.0 μA Typ./3.0 μA Max.		No load condition, Vcc = 3.0 V
Disable current	I_dis	1.5 μA Max.		OE=GND, Vcc = 3.0 V
Symmetry	SYM	40 % to 60 %		50 % Vcc level
Output voltage	VOH	80 % Vcc Min.		IOH=-0.5 mA, Vcc=3.0 V
	VOL	20% Vcc Max.		IOL=0.5 mA, Vcc=3.0 V
Output load condition(CMOS)	L_CMOS	30 pF Max.		
Start-up time	t_str	1 s Max.		Ta= +25 °C , Vcc=1.5 V to 5.5 V
Frequency aging	f_aging	±3 × 10 ⁻⁶		Ta= +25°C, Vcc=3.0 V, first year

^{*1)} Equivalent to 9 seconds of month deviation.

External dimensions (Unit:mm) 3.2 ± 0.2 2.5 ± 0.2 Pin Connection OE 2 Vcc 3 Vcc 4 OUT 5 **GND** 6 N.C. 7 GND 8 GND #9 #8 9 GND 10 N.C. #10 *OE is active HIGH input, 0.35 do not leave floating. *N.C. must be left open.



^{*2)} Equivalent to 21 seconds of month deviation. *3) Equivalent to 13 seconds of month deviation.

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.

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

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.

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

Explanation of the mark that are using it for the catalog



►Pb free.



- ► Complies with EU RoHS directive.
 - *About the products without the Pb-free mark.

 Contains Pb in products exempted by EU RoHS directive.

 (Contains Pb in sealing glass, high melting temperature type solder or other.)



▶ Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.



 \blacktriangleright Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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