TG-3541CE

Output frequencyBuilt-in 32.768 kHz-DTCXO : 32.768 kHz

 Supply voltage : 1.5 V to 5.5 V

Frequency / Temperature Characteristics

•XA ± 1.9 x 10⁻⁶ (0 °C to +50 °C) ± 3.4 x 10⁻⁶ (-40 °C to +85 °C)

 \pm 8.0 x 10⁻⁶ (+85 °C to +105 °C)

•XB \pm 3.8 x 10⁻⁶ (0 °C to +50 °C) \pm 5.0 x 10⁻⁶ (-40 °C to +85 °C)

 \pm 8.0 x 10⁻⁶ (+85 °C to +105 °C)





Product Number

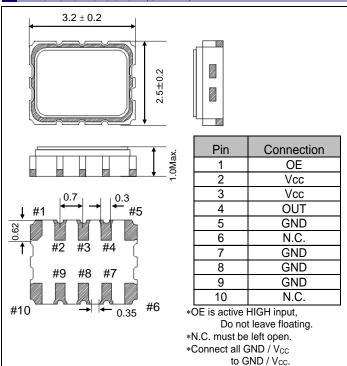
TG-3541CE: X1B000351xxxx00



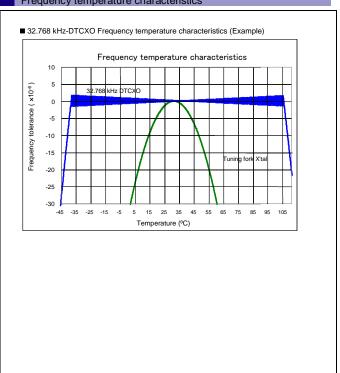
Specifications (characteristics)

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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 / Temperature Characteristics		XA	$\pm 1.9 \times 10^{-6}$	Ta = 0 °C ~ +50 °C
	fo_Tc		$\pm 3.4 \times 10^{-6}$	Ta = -40 °C ~ +85 °C
			$\pm 8.0 \times 10^{-6}$	Ta = +85 °C ~ +105 °C
		ХВ	$\pm 3.8 \times 10^{-6}$	Ta = 0 °C ~ +50 °C
			$\pm 5.0 \times 10^{-6}$	Ta = -40 °C ~ +85 °C
			$\pm 8.0 \times 10^{-6}$	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	V _{OH}	80 % Vcc Min.		IOH = -0.5 mA, Vcc=3.0 V
	V _{OL}	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

External dimensions (Unit:mm)



Frequency temperature characteristics



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 IATF 16949 certification that is requested strongly by major automotive manufacturers as standard.

IATF 16949 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.



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

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