

SEIKO EPSON CORPORATION

(Unit :mm)

1.10 #3

#2

4.40

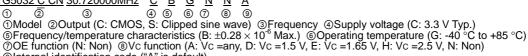
1.30

10

TG5032CCN (CMOS) TG5032SCN (Clipped sine wave)							
Item	Symbol	VC-TCXO	TCXO		1 /	Conditions / Remarks	
				VC-TCXO	TCXO		
	fo	10 MHz to 50 MHz				Standard frequency	
Output frequency range		10, 12.8, 15.36, 16.384, 19.44, 20, 24,					
Our all such that are		24.576, 25, 26, 27, 30.72, 40, 49.152, 50 MHz					
Supply voltage Storage temperature		C: 3.3 V ±5%, H: 5.0 V ±5% (Supply voltage range :2.7 V to 5.5 V)			Storage of single product		
	T_stg				Storage as single product		
Operating temperature	T_use f_tol	G: -40 °C to +85 °C				After reflow, +25 °C	
a) Frequency tolerance		$\pm 1.0 \times 10^{-6}$ Max. (10 MHz $\leq f_0 \leq 40$ MHz)					
, , ,		$\pm 0.9 \times 10^{16}$ Max. (40 MHz < fo ≤ 50 MHz)					
 b) Frequency/temperature characteristics 	fo-Tc	B: $\pm 0.28 \times 10^{6}$ Max.(for Stratum3) H: $\pm 0.25 \times 10^{6}$ Max. (for Stratum3) : Option			-40 °C to +85 °C		
characteristics							
c) Frequency/load coefficient	fo-Load	$\pm 0.1 \times 10^{-6}$ Max. (10 MHz $\leq f_0 \leq 40$ MHz)			Load ±10 %		
		$\pm 0.2 \times 10^{-6}$ Max. (40 MHz < fo ≤ 50 MHz)					
d) Frequency/voltage coefficient	fo-Vcc	$\pm 0.1 \times 10^{-6}$ Max. (10 MHz $\leq f_0 \leq 40$ MHz)			Vcc ±5%		
		$\pm 0.2 \times 10^{-1}$ Max. (40 MHz $< 10 \ge 50$ MHz)					
e) Frequency aging	f_age	±0.5 ×10 ⁻⁶ Max.			+25 °C, First year		
	- 0	$\pm 3.0 \times 10^{-6}$ Max. (for Stratum3)			+25 ℃ , 20 years		
Holdover stability	-					After 10 days of continuous operation.	
(Constant temperature)					After 48 hours of continuous operation.		
Free-run accuracy	- Icc	±4.6 × 10 ⁻⁶ Max.				This includes Item a), b), c), d) and e).	
Current consumption		5.0 mA Max. / 6.0 mA Max.				$10 \text{ MHz} \le f_0 \le 26 \text{ MHz} (3.3 \text{ V} / 5.0 \text{ V})$	
		6.0 mA Max. / 8.0 mA Max. 8.0 mA Max. / 10.0 mA Max.				$26 \text{ MHz} < f_0 \le 40 \text{ MHz} (3.3 \text{V} / 5.0 \text{V})$	
			0.0 mA Max.	400 LO M's		$40 \text{ MHz} < f_0 \le 50 \text{ MHz} (3.3 \text{V} / 5.0 \text{V})$	
Input resistance	Rin	100 kΩ Min.	_	100 kΩ Min.		Vc- GND (DC)	
Frequency control range	f_cont	±5 ×10 ⁻⁶ to	_	±5 ×10 ⁻⁶ to ±10 ×10 ⁻⁶		D :Vc=1.5 V \pm 1.0 V at V _{cc} =3.3 V	
		±10 ×10 ⁻⁶				E: Vc=1.65 V \pm 1.0 V at V _{cc} =3.3 V	
For successive to a second sector		De althus in alla altri		De siliere e staviter		H: Vc=2.5 V ± 2.0 V at V _{cc} =5.0 V	
Frequency change polarity		Positive polarity		Positive polarity	—		
Symmetry	SYM	45 % to 55 %				GND level (DC cut)	
Output voltage	Voн	90 % Vcc Min.					
	Vol	10 % Vcc Max.					
Output level	VPP			0.8 V Min.		Peak to Peak	
Rise time / Fall time	tr/tf	8.0 ns Max.				10% Vcc to 90 % Vcc level,Load:15 pF	
Start-up time	t_str	5.0 ms				T=0 at 90% Vcc	
Output load condition	Load	15 pF 10 kΩ//10 pF					

* Note : Please contact us for requirements not listed in this specification.

Product Name (Standard form) TG5032 C CN 30.720000MHz C B G N N A



Internal identification code ("A" is default) **External dimensions** Footprint (Recommended) (Unit :mm) #4 3.20±0.3 Marking 0.30 5.00 ± 0.2 #1 Pin map Pin VC-TCXO TCXO N.C To maintain stable operation, provide a 0.1 μF by-pass capacitor at

a location as near as possible to the power source terminal of the crystal product (between V_{CC} - GND).

YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565 SHENZHEN

18924600166

QQ: 857950243 http://www.vc-tcxo.com

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.

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.

Explanation of the mark that are using it for the catalog

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.

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

Pb Free	► Pb free.
RoHS_	Complies with EU RoHS directive.
Compliant	*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.)
For Automotive	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
Automotive safety	Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

Notice

• This material is subject to change without notice.

18924600166

- Any part of this material may not be reproduced or duplicated in any form or any means without the written permission of Seiko Epson.
 The information about applied data, circuitry, software, usage, etc. written in this material is intended for reference only. Seiko Epson does not assume any liability for the occurrence of customer damage or infringing on any patent or copyright of a third party. This material does not authorize the licensing for any patent or intellectual copyrights.
- When exporting the products or technology described in this material, you should comply with the applicable export control laws and
 regulations and follow the procedures required by such laws and regulations.
- You are requested not to use the products (and any technical information furnished, if any) for the development and/or manufacture of
 weapon of mass destruction or for other military purposes. You are also requested that you would not make the products available to
 any third party who may use the products for such prohibited purposes.
- These products are intended for general use in electronic equipment. When using them in specific applications that require extremely high reliability, such as the applications stated below, you must obtain permission from Seiko Epson in advance.
 / Space equipment (artificial satellites, rockets, etc.) / Transportation vehicles and related (automobiles, aircraft, trains, vessels, etc.) / Medical instruments to sustain life / Submarine transmitters / Power stations and related / Fire work equipment

http://www.vc-tcxo.com

- and security equipment / traffic control equipment / and others requiring equivalent reliability.
- All brands or product names mentioned herein are trademarks and/or registered trademarks of their respective.

QQ: 857950243

SHENZHEN YIJIN ELECTRONICS CO: LTD TEL: 0755-27876565