



TCXO / VC-TCXO
HIGH STABILITY, CMOS OUTPUT



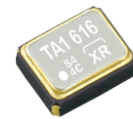
Product Number
TG3225CEN : X1G005101xxxxxx
TG2520CEN : X1G005161xxxxxx

TG3225CEN / TG2520CEN

- Output frequency : 12 MHz to 52 MHz
Supply voltage : 2.8 V Typ. / 3.0 V Typ. / 3.3 V Typ.
Frequency / temperature characteristics : ±2.0 × 10⁻⁶ Max.
External dimensions: 3.2 × 2.5 × 0.9 mm / 2.5 × 2.0 × 0.8 mm
Applications : Reference clock for measurement machine
Wireless communication devices (Smart meter, Telemeter, other)
Features : High stability, CMOS output



TG3225CEN (3.2 × 2.5 × 0.9 mm)



TG2520CEN (2.5 × 2.0 × 0.8 mm)

Specifications (characteristics)

Table with 5 columns: Item, Symbol, TCXO, VC-TCXO, Conditions / Remarks. Rows include Output frequency range, Supply voltage, Storage temperature range, Operating temperature range, Frequency tolerance, Frequency/temperature characteristics, Frequency/load coefficient, Frequency/voltage coefficient, Frequency aging, Current consumption, Input impedance, Frequency control range, Frequency change polarity, Symmetry, Output voltage, Start-up time, Rise time / Fall time, CMOS load condition.

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

Product Name TG3225 CEN 39.000000MHz K F G N M
(Standard form) ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ①Model ②Output (C: CMOS)
③Frequency ④Supply voltage (Refer to symbol table)
⑤Frequency / temperature characteristics (F: ±2.0 × 10⁻⁶ Max.)
⑥Operating temperature (G: -40 °C to +85 °C)
⑦OE function (N: Non) ⑧Vc function (Refer to symbol table , A: Vc = any) ⑨Internal identification code ("M" is default)

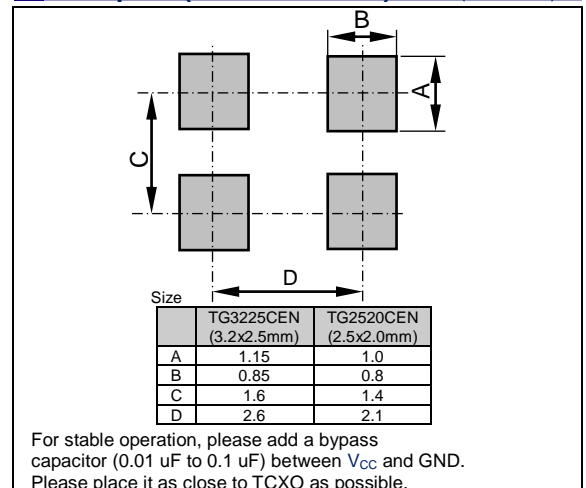
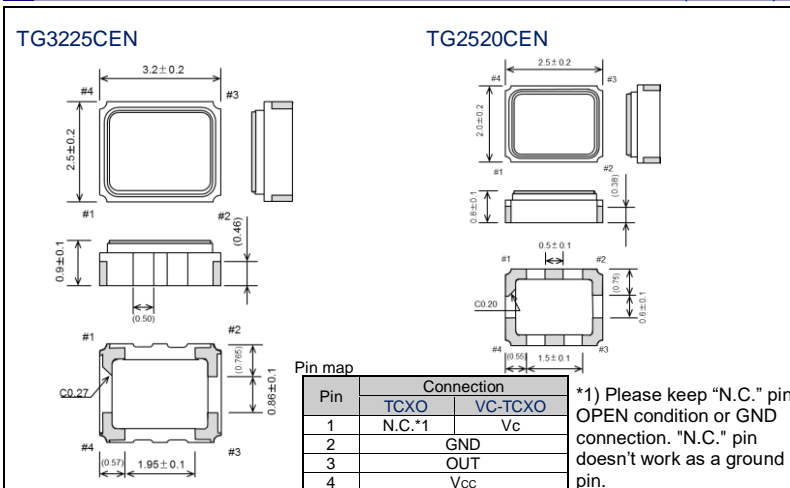
Table with 3 columns: Voltage [V], TCXO, VC-TCXO. Rows: ④Supply voltage [Vcc], ④Vcc (Typ.), ⑧Vc (Typ.)

External dimensions

(Unit: mm)

Footprint (Recommended)

(Unit: mm)



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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