

#### SEIKO EPSON CORPORATION



#### Specifications (characteristics)

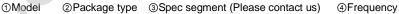
Item	Symbol	VC-TCXO	TCXO	TCXO-Standby	Conditions / Remarks
Output frequency range	fo	26 MHz, and 38.4 MHz			Standard frequency
		25.000 MHz to 52.000 MHz			TG-5035CJ/TG5035CG
		16.000 MHz to 40.000 MHz			TG-5035CE
Supply voltage	Vcc	1.8 V ±0.1 V / 2.8 V ±5% / 3.0 V ±5% / 3.3 V ±5%			Supply voltage range : 1.7 V to 3.6 V
Storage temperature	T_stg	-40 °C to +90 °C			Storage as single product.
Operating temperature	T_use	-40 °C to +85 °C / -30 °C to +85 °C			
Frequency tolerance	f_tol	±2.0 ×10 <sup>-6</sup> Max.			After reflow, +25 °C
Frequency/temperature characteristics	fo-Tc	±0.5 × 10 <sup>-6</sup> Max. / -30 °C to +85 °C			High stability version (for GPS)
		±2.0 × 10 <sup>-6</sup> Max. / -30 °C to +85 °C			Standard stability version
		±0.5 × 10 <sup>-6</sup> Max. / -40 °C to +85 °C			Customized product.(Option)
Frequency/load coefficient	fo-Load	±0.2 × 10 <sup>-6</sup> Max.			10 kΩ // 10 pF ±10 %
Frequency/voltage coefficient	fo-Vcc	±0.2 ×10 <sup>-6</sup> Max.			Vcc ±5%
Frequency aging	f_age	±1.0 ×10 <sup>-6</sup> Max.			+25 °C , First year, fo≦40 MHz
		±1.5 ×10 <sup>-6</sup> Max.			+25 °C , First year,40 MHz < fo≦52 MHz
Current consumption	Icc	1.5 mA Max.			fo≦26 MHz
		2.0 mA Max.			26 MHz <fo≦52 mhz<="" td=""></fo≦52>
Stand-by current	I_std	— 10 µA Max.		$\overline{ST} = GND$	
Input voltage	VIH			- ST terminal	
	VIL				
Input resistance	Rin	500 kΩ Min.		—	Vc- GND (DC)
Frequency control range	f_cont				Vc =0.9 V ±0.6 V (Vcc =1.8 V) or
		$\pm 8.0 \times 10^{-6}$ to			Vc =1.4 V ±1.0 V (Vcc =2.8 V) or
		$\pm 15.0 \times 10^{-6}$			Vc =1.5 V ±1.0 V (Vcc =3.0 V) or
					Vc =1.65 V ±1.0 V (Vcc =3.3 V)
Frequency change polarity		Positive polarity		—	
Symmetry	SYM	40 % to 60 %			GND level (DC cut)
Output voltage	Vpp	0.8 V Min.			Peak to Peak
Start-up time	t_str	2.0 ms Max.			T=0 at 90% Vcc
Output load condition	Load_R	10 kΩ 10 pF			–DC cut capacitor = 0.01 μF
	Load_C				

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



## TG-5035 CJ-\*\*\* 26.000000MHz

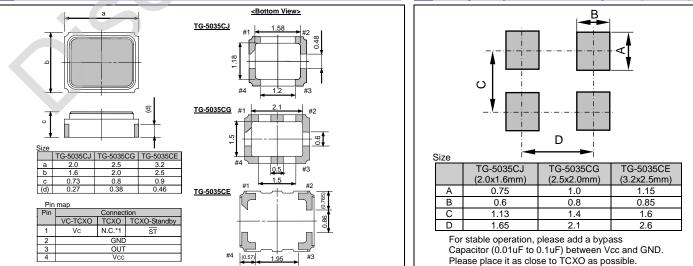




(Unit: mm)

Footprint (Recommended)

#### External dimensions



\*1) Please keep "N.C." pin OPEN condition or GND connection. "N.C." pin doesn't work as a ground pin.

(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.

### **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.

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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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