

TCXO/VC-TCXO  
HIGH STABILITY

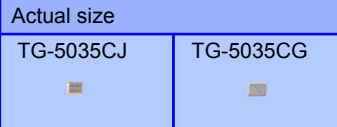
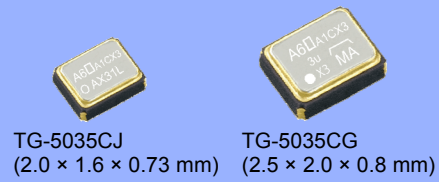
**NEW**



Product Number (Please contact us)  
TG-5035CJ :X1G003841Axxx00  
TG-5035CG :X1G003851Axxx00

# TG - 5035CJ / CG

- Frequency range : 13 MHz to 52 MHz
- Supply voltage : 1.8 V Typ.
- Frequency / temperature characteristics :  $\pm 0.5 \times 10^{-6}$  Max.
- Applications : Car navigation system, GPS
- Features : High stability, Low supply voltage (1.8 V)
- Conforms to AEC-Q200



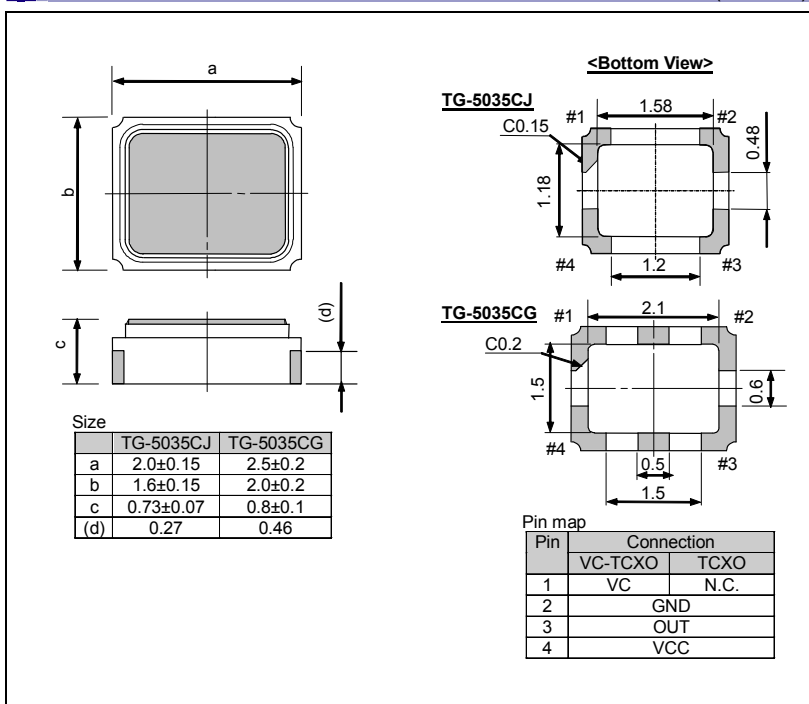
## Specifications (characteristics)

Item	Symbol	Specifications		Conditions / Remarks
		VC-TCXO	TCXO	
Output frequency range	$f_o$	13 MHz, 16.368 MHz, 16.369 MHz, 19.2 MHz, 26 MHz, and 38.4 MHz 13.000 MHz to 52.000 MHz		Standard frequency
Supply voltage	Vcc	1.8 V $\pm 0.1$ V (Range :1.7 V to 3.3 V)		
Storage temperature	T_stg	-40 °C to +85 °C		Storage as single product.
Operating temperature	T_use	-40 °C to +85 °C		
Frequency tolerance	f_tol	$\pm 1.5 \times 10^{-6}$ Max.		After reflow, +25 °C
Frequency/temperature characteristics	fo-Tc	$\pm 0.5 \times 10^{-6}$ Max. / -40 °C to +85 °C		
Frequency/load coefficient	fo-Load	$\pm 0.2 \times 10^{-6}$ Max.		10 k $\Omega$ // 10 pF $\pm 10$ %
Frequency/voltage coefficient	fo-Vcc	$\pm 0.2 \times 10^{-6}$ Max.		Vcc =1.8 V $\pm 0.1$ V
Frequency aging	f_age	$\pm 1.0 \times 10^{-6}$ Max. $\pm 1.5 \times 10^{-6}$ Max.		+25 °C , First year, 13 MHz $\leq f_o \leq 40$ MHz +25 °C , First year, 40 MHz $< f_o \leq 52$ MHz
Current consumption	Icc	2.0 mA Max.		
Input resistance	Rin	500 k $\Omega$ Min.	—	Vc- GND (DC)
Frequency control range	f_cont	$\pm 5.0 \times 10^{-6}$ to $\pm 12.0 \times 10^{-6}$	—	Vc=0.9 V $\pm 0.6$ V (Vcc =1.8 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
Output load condition	Load_R	10 k $\Omega$		DC cut capacitor = 0.01 $\mu$ F
	Load_C	10 pF		

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

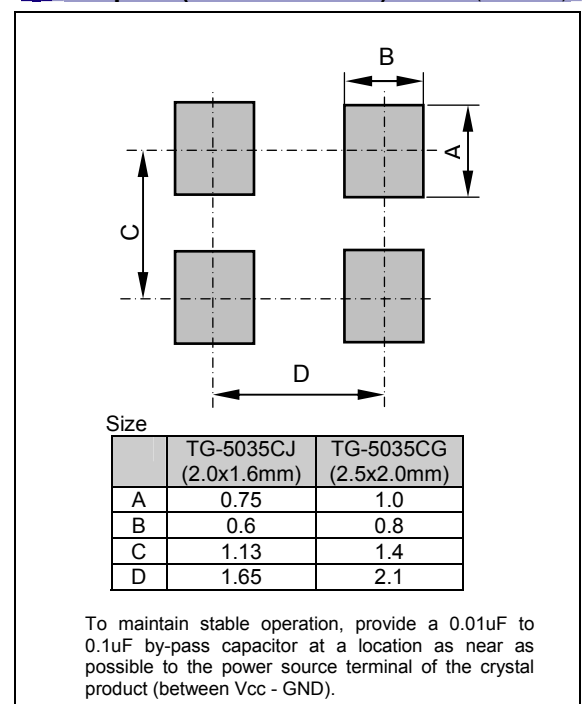
## External dimensions

(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.

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### ► 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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