

**TCXO/VC-TCXO
HIGH STABILITY**


Product Number
TG-5006CJ : X1G004131xxx00
TG-5006CG : X1G004211xxx00
TG-5006CE : X1G004201xxx00

TG-5006CJ / CG / CE

- Frequency range : 13 to 52MHz(TG-5006CJ/CG)
13 to 20MHz, 26 to 40MHz(TG-5006CE)
- Supply voltage : 1.8 V Typ./ 2.8 V Typ./ 3.0 V Typ./ 3.3 V Typ.
- Frequency / temperature characteristics : $\pm 0.5 \times 10^{-6}$ Max or $\pm 2.0 \times 10^{-6}$ Max.
- Applications : GPS, RF,
Wireless communication devices
(CDMA, WCDMA, LTE, WiMAX, other)
- Features : High stability



TG-5006CJ
(2.0 × 1.6 × 0.73 mm)



TG-5006CG
(2.5 × 2.0 × 0.8 mm)



TG-5006CE
(3.2 × 2.5 × 0.9 mm)

Specifications (characteristics)

Item	Symbol	VC-TCXO	TCXO	Conditions / Remarks
Output frequency range	fo	16.367667 MHz, 16.368 MHz, 16.369 MHz, 19.2 MHz, 26 MHz and 38.4 MHz		Standard frequency
		13.000 MHz to 52.000 MHz		TG-5006CJ/TG5006CG
		13.000 MHz to 20.000 MHz,26.000 MHz to 40.000 MHz		TG-5006CE
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 3.465 V
Storage temperature range	T_stg	-40 °C to +90 °C		Storage as single product.
Operating temperature range	T_use	-30 °C to +85 °C		
Frequency tolerance	f_tol	±2.0 ×10 ⁻⁶ Max.		After reflow, +25 °C
Frequency/temperature characteristics	fo-Tc	±0.5 × 10 ⁻⁶ Max. / -30 °C to +85 °C		High stability version for GPS
		±2.0 × 10 ⁻⁶ Max. / -30 °C to +85 °C		Standard stability version
Frequency/load coefficient	fo-Load	±0.2 × 10 ⁻⁶ Max.		10 kΩ // 10 pF ±10 %
Frequency/voltage coefficient	fo-Vcc	±0.2 × 10 ⁻⁶ Max.		Vcc ±5%
Frequency aging	f_age	±1.0 ×10 ⁻⁶ Max.		+25 °C , First year,13 MHz≤fo≤40 MHz
		±1.5 ×10 ⁻⁶ Max.		+25 °C , First year,40 MHz<fo≤52 MHz
Current consumption	Icc	1.5 mA Max.		13 MHz≤fo≤26 MHz
		2.0 mA Max.		26 MHz<fo≤52 MHz
Input impedance	Zin	500 kΩ Min.	—	Vc- GND (DC)
Frequency control range	f_cont	±8.0 × 10 ⁻⁶ to ±15.0 × 10 ⁻⁶	—	Vc =0.9 V ±0.6 V (Vcc =1.8 V) or Vc =1.4 V ±1.0 V (Vcc =2.8 V) or 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	f_cp	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	Load_R	10 kΩ		DC cut capacitor = 0.01 μF
	Load_C	10 pF		

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

Product Name TG-5006 CJ-*** 19.200000MHz

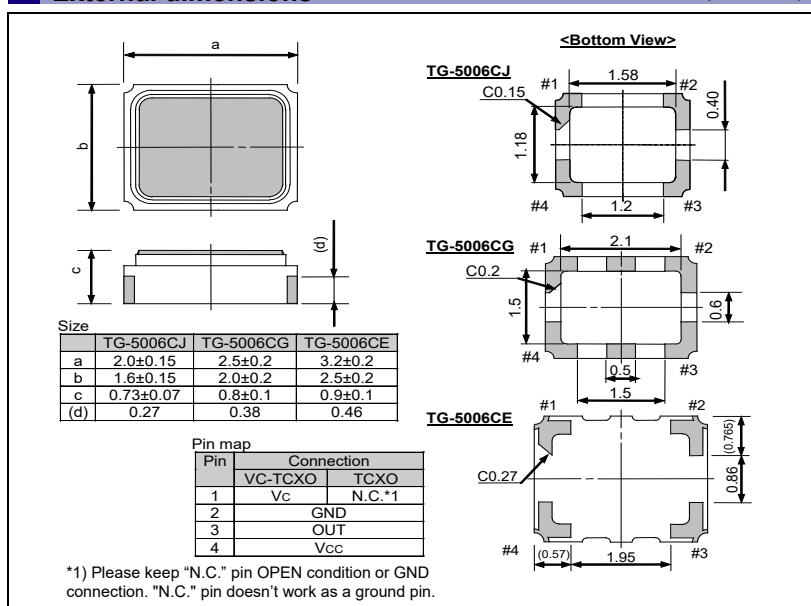
(Standard form)

① Model ② Package type ③ Spec segment (Please contact us) ④ Frequency

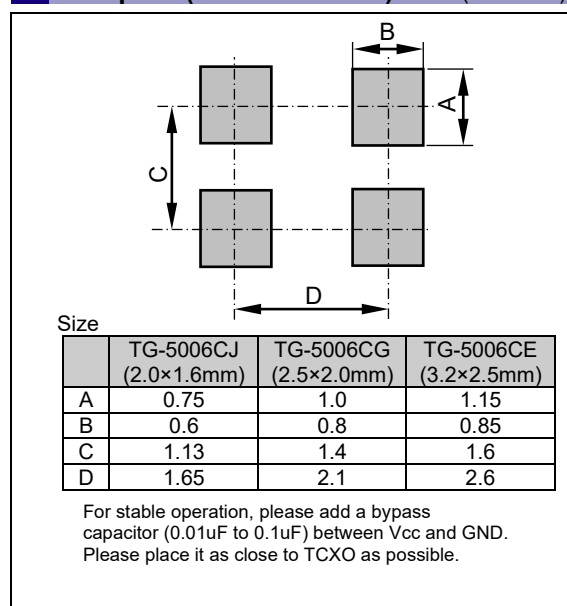
① Model ② Package type ③ Spec segment (Please contact us) ④ Frequency

External dimensions

(Unit: mm)


Footprint (Recommended)

(Unit: mm)



► 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 general equipment.
	► Designed for automotive applications related to driving and safety.

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