

TCXO/VC-TCXO

TG - 5031CJ / TG - 5021CG / CE

- Frequency range : 13 MHz to 52 MHz
(TG-5031CJ/TG-5021CG)
10 MHz to 40MHz (TG-5021CE)
- Supply voltage : 1.8 V Typ. (TG-5031CJ)
2.8 V Typ. (TG-5021CG/CE)
- Frequency / temperature characteristics : $\pm 2.0 \times 10^{-6}$ Max.
- Applications : Wireless communication devices
(CDMA, WCDMA, LTE, WiMAX, other)
- Features : Low phase noise



Product Number (Please contact us)

TG-5031CJ : X1G003891xxxx00

TG-5021CG : X1G003581xxxx00

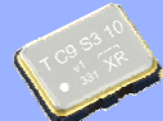
TG-5021CE : X1G003821xxxx00



TG-5031CJ
(2.0 × 1.6 × 0.73 mm)

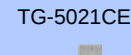
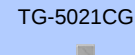
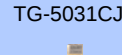


TG-5021CG
(2.5 × 2.0 × 0.8 mm)



TG-5021CE
(3.2 × 2.5 × 0.9 mm)

Actual size



Specifications (characteristics)

Item	Symbol	VC-TCXO	TCXO	Conditions / Remarks
Output frequency range	fo	13 MHz, 19.2 MHz, 26 MHz and 38.4 MHz		Standard frequency
		13.000 MHz to 52.000 MHz		TG-5031CJ/TG5021CG
		10.000 MHz to 40.000 MHz		TG-5021CE
Supply voltage	Vcc	1.8 V ±0.1 V (Range :1.7 V to 3.3 V)		TG-5031CJ
		2.8 V ±0.14 V (Range :2.3 V to 3.6 V)		TG-5021CG/TG5021CE
Storage temperature	T_stg	-40 °C to +85 °C		Storage as single product.
Operating temperature	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	±2.0 × 10 ⁻⁶ Max. / -30 °C to +85 °C		
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 =1.8 V ±0.1 V (TG-5031CJ) Vcc =2.8 V ±0.14 V (TG-5021CG/CE)
Frequency aging	f_age	±1.0 ×10 ⁻⁶ Max.		+25 °C , First year,10 MHz≤fo≤40 MHz
		±1.5 ×10 ⁻⁶ Max.		+25 °C , First year,40 MHz<fo≤52 MHz
Current consumption	Icc	2.0 mA Max.		
Input resistance	Rin	500 kΩ Min.	—	Vc- GND (DC)
Frequency control range	f_cont	±5.0 × 10 ⁻⁶ to ±12.0 × 10 ⁻⁶	—	Vc=0.9 V ±0.6 V (Vcc =1.8 V) Vc=1.4 V ±1.0 V (Vcc =2.8 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 kΩ		DC cut capacitor = 0.01 μF
	Load_C	10 pF		

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

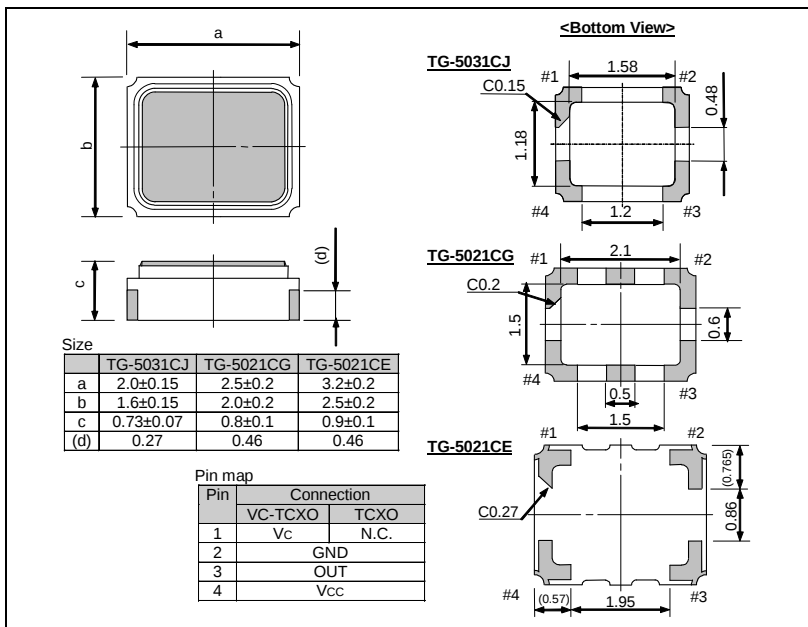
Product Name TG-5031 C.J-*** 26.000000MHz

(Standard form)

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

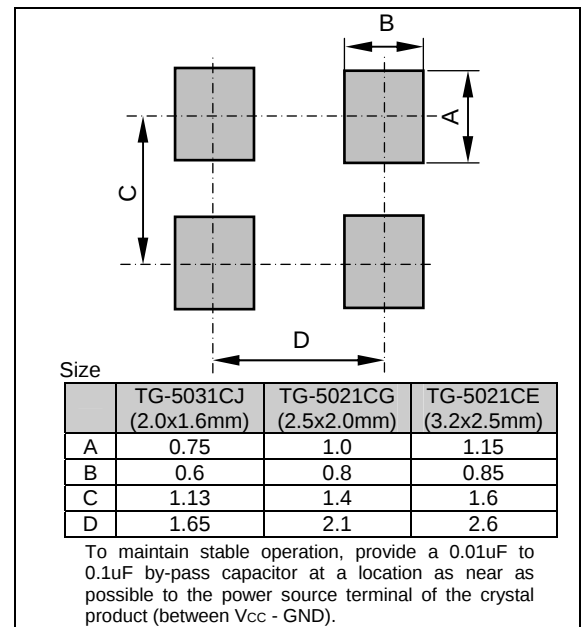
External dimensions

(Unit: mm)



Footprint (Recommended)

(Unit: mm)



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	► 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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