



TCXO/VC-TCXO

For Automotive, HIGH STABILITY



Product Number
TG-5035CJ :X1G003841Axxx00
TG-5035CG :X1G003851Axxx00

TG-5035CJ

TG-5035CG

- Frequency range : 25 MHz ~ 52 MHz (TG-5035CJ)
- 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 : Car navigation system, GPS
- Features : High stability, Stand-by function ($\overline{ST}$)
- Conforms to AEC-Q200



TG-5035CJ
(2.0 × 1.6 × 0.73 mm)



TG-5035CG
(2.5 × 2.0 × 0.8 mm)

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 ~ 52.000 MHz			
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			
Frequency tolerance	f tol	±1.5 ×10 ⁻⁶ Max.			After reflow, +25 C
Frequency/temperature characteristics	fo-Tc	±0.5 × 10 ⁻⁶ Max. / -40 C to +85 C			High stability version (for GPS)
		±2.0 × 10 ⁻⁶ Max. / -40 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, fo≤40 MHz
		±1.5 ×10 ⁻⁶ 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
Stand-by current	I_std	—		10 μA Max.	ST = GND
Input voltage	V_IH	—		80% Vcc Min.	ST terminal
	V_IL	—		20 % Vcc Max.	
Input resistance	Rin	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	—	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			DC cut capacitor = 0.01 μF
	Load_C	10 pF			

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

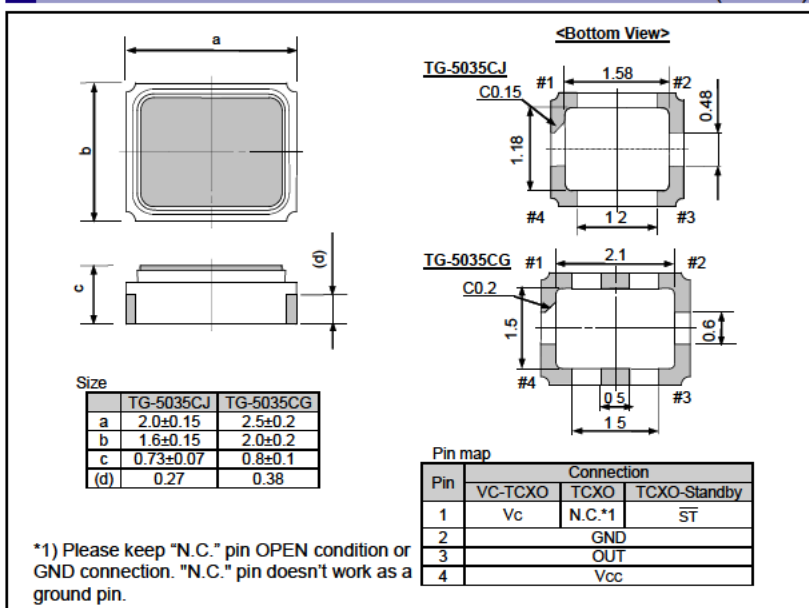
Product Name TG-5035 C.J-*** 26.000000MHz

(Standard form)

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

External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

