

TCXO/VC-TCXO
For Automotive, HIGH STABILITY



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

TG-5035CJ
TG-5035CG



TG-5035CJ
(2.0 × 1.6 × 0.73 mm)



TG-5035CG
(2.5 × 2.0 × 0.8 mm)

- 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

Specifications (characteristics)

Item	Symbol	VC-TCXO	TCXO	TCXO-Standby	Conditions / Remarks
Output frequency range	f_o	26 MHz, and 38.4 MHz			Standard frequency
		25.000 MHz ~ 52.000 MHz			
Supply voltage	V_{cc}	1.8 V ± 0.1 V / 2.8 V $\pm 5\%$ / 3.0 V $\pm 5\%$ / 3.3 V $\pm 5\%$			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}	$\pm 1.5 \times 10^{-6}$ Max.			After reflow, +25 C
Frequency/temperature characteristics	f_o -Tc	$\pm 0.5 \times 10^{-6}$ Max. / -40 C to +85 C			High stability version (for GPS)
		$\pm 2.0 \times 10^{-6}$ Max. / -40 C to +85 C			Standard stability version
Frequency/load coefficient	f_o -Load	$\pm 0.2 \times 10^{-6}$ Max.			10 k Ω // 10 pF $\pm 10\%$
Frequency/voltage coefficient	f_o -Vcc	$\pm 0.2 \times 10^{-6}$ Max.			$V_{cc} \pm 5\%$
Frequency aging	f_{age}	$\pm 1.0 \times 10^{-6}$ Max.			+25 C, First year, $f_o \leq 40$ MHz
		$\pm 1.5 \times 10^{-6}$ Max.			+25 C, First year, 40 MHz < $f_o \leq 52$ MHz
Current consumption	I_{cc}	1.5 mA Max.			$f_o \leq 26$ MHz
		2.0 mA Max.			26 MHz < $f_o \leq 52$ MHz
Stand-by current	I_{std}	—			10 μ A Max.
		—			80% V_{cc} Min.
		—			20% V_{cc} Max.
Input voltage	V_{IH}	—			\overline{ST} terminal
	V_{IL}	—			
Input resistance	R_{in}	500 k Ω Min.			VC- GND (DC)
Frequency control range	f_{cont}	$\pm 8.0 \times 10^{-6}$ to $\pm 15.0 \times 10^{-6}$			$V_c = 0.9$ V ± 0.6 V ($V_{cc} = 1.8$ V) or $V_c = 1.4$ V ± 1.0 V ($V_{cc} = 2.8$ V) or $V_c = 1.5$ V ± 1.0 V ($V_{cc} = 3.0$ V) or $V_c = 1.65$ V ± 1.0 V ($V_{cc} = 3.3$ V)
Frequency change polarity	—	Positive polarity			
Symmetry	SYM	40 % to 60 %			GND level (DC cut)
Output voltage	V_{PP}	0.8 V Min.			Peak to Peak
Start-up time	t_{str}	2.0 ms Max.			T=0 at 90% V_{cc}
Output load condition	Load_R	10 k Ω			DC cut capacitor = 0.01 μ F
	Load_C	10 pF			

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

Product Name TG-5035CJ-*** 26.000000MHz
(Standard form) ① ② ③ ④

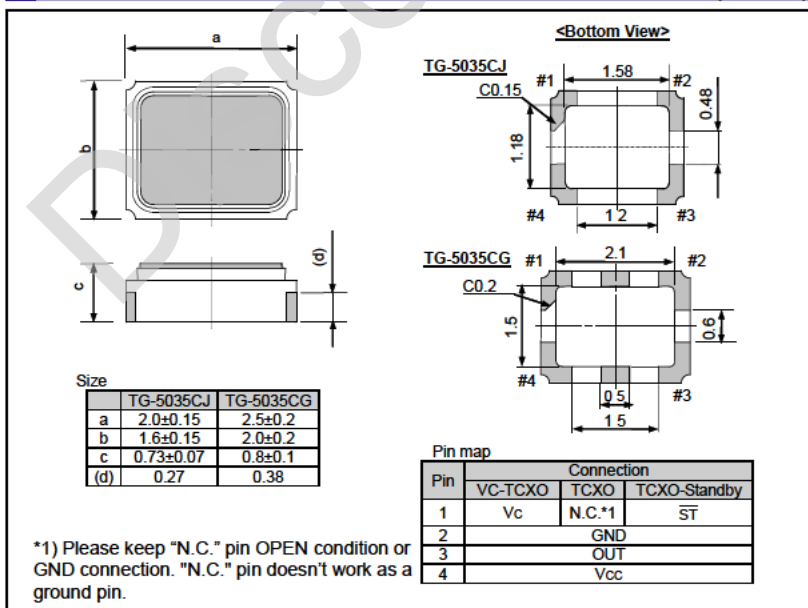
① Model ② Package type ③ Spec segment (Please contact us) ④ Frequency

External dimensions

(Unit:mm)

Footprint (Recommended)

(Unit:mm)



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

