



VOLTAGE-CONTROLLED CRYSTAL OSCILLATOR (VCXO)

OUTPUT : CMOS



Product Number
 VG2520CAN: X1G004401xxxxxx
 VG7050CAN: X1G004531xxxxxx

VG2520CAN

VG7050CAN

- Frequency range : 30.72 MHz
- Supply voltage : 3.3 V
- Absolute pull range : $\pm 50 \times 10^{-6}$ Min.
- Operation temperature : -40 °C to +85 °C / -40 °C to +105 °C
- Output : CMOS



Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Output frequency range	f _o	30.72 MHz	Please contact us about available frequencies. (1.25 MHz to 80 MHz)
Supply voltage	V _{cc}	3.3 V ± 0.165 V	
Storage temperature range	T _{stg}	-40 °C to +125 °C	Storage as single product
Operating temperature range	T _{use}	G: -40 °C to +85 °C, H: -40 °C to +105 °C	
Current consumption	I _{cc}	15 mA Max.	CL=15pF
Frequency tolerance *1	f _{tol}	$\pm 50 \times 10^{-6}$ Max.	
Frequency control range	F _{cont}	$\pm 100 \times 10^{-6}$ Min.	V _c = 1.65 V ± 1.65 V
Absolute pull range *2	APR	$\pm 50 \times 10^{-6}$ Min.	V _c = 1.65 V ± 1.65 V
Modulation band width	BW	10 kHz Min.	± 3 dB (refer to response at 1kHz)
Input resistance	R _{in}	10 M Ω Min.	DC level
Frequency change polarity	—	Positive	V _c = 1.65 V ± 1.65 V
Symmetry	SYM	45 % to 55 %	50 % V _{cc} level
Output voltage	V _{OH}	90 % V _{cc} Min.	
	V _{OL}	10 % V _{cc} Max.	
Output load condition	L _{CMOS}	15 pF Max.	CMOS
Rise/Fall times	t _r / t _f	5 ns Max.	at 20 % to 80 % V _{cc} level
Start-up time	t _{str}	10ms Max.	t=0 at 90 % V _{cc}

*1 Frequency tolerance includes initial frequency tolerance, temperature variation, supply voltage variation, reflow drift, and aging (+25 °C, 10 years).

*2 Absolute pull range = Frequency control range - Frequency tolerance

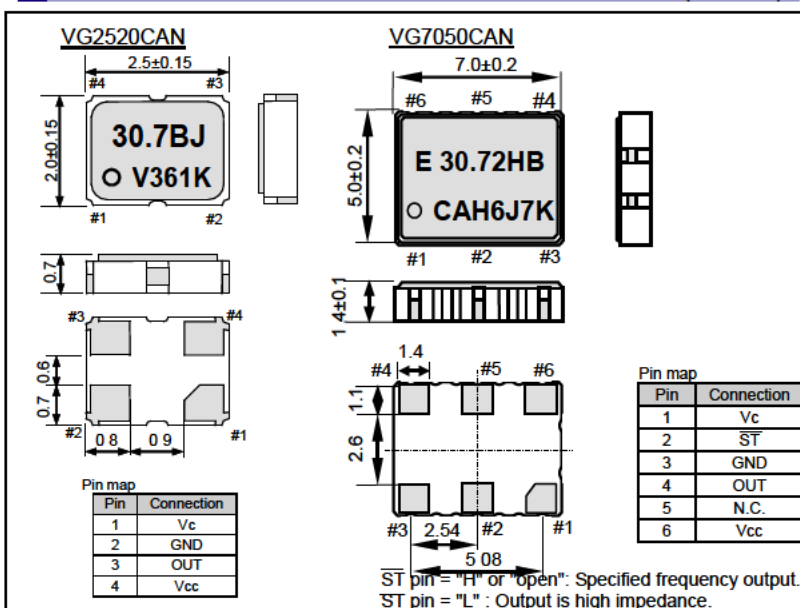
Please keep V_c pin open or ground while powering up V_{cc}.

Product name VG2520 CAN 30.720000 MHz C J G N B B
 (Standard form) ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Model ② Output (C: CMOS) ③ Frequency
 ④ Supply voltage (C: 3.3 V Typ.) ⑤ Frequency tolerance (J: $\pm 50 \times 10^{-6}$ Max.)
 ⑥ Operating temperature (G: -40 to +85°C, H: -40 to +105°C) ⑦ OE Function (N: Non, S: Standby)
 ⑧ Absolute Pull Range (B: $\pm 50 \times 10^{-6}$ Min.) ⑨ Internal identification code

External dimensions

(Unit :mm)



Footprint (Recommended)

(Unit :mm)

