

**VOLTAGE-CONTROLLED CRYSTAL OSCILLATOR (VCXO)**  
Single end output (CMOS)

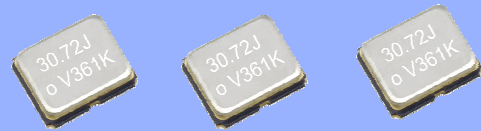
**NEW**

**VG2520CAN**

- Frequency range : 1.25 MHz to 80 MHz
- Supply voltage : 3.3 V
- Absolute pull range :  $50 \times 10^{-6}$  Min.
- External dimensions : 2.5 × 2.0 × 0.7 mm (t : Typ.)
- Output : CMOS



Product Number (please contact us)  
X1G004401xxxx00



Actual size

**Specifications (characteristics)**

Item	Symbol	Specifications	Conditions / Remarks
Output frequency range	fo	1.25 MHz to 80 MHz	Please contact us about available frequencies.
Supply voltage	Vcc	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	-40 °C to +85 °C	
Current consumption	Icc	15 mA Max.	CL=15pF
Frequency tolerance *1	f_tol	±50 × 10 <sup>-6</sup> Max.	
Frequency control range	F_cont	±100 × 10 <sup>-6</sup> Min.	Vc= 1.65 V ±1.65 V
Absolute pull range *2	APR	±50 × 10 <sup>-6</sup> Min.	Vc= 1.65 V ±1.65 V
Modulation band width	BW	10 kHz Min.	±3 dB (refer to response at 1kHz)
Input resistance	Rin	10 MΩ Min.	DC level
Frequency change polarity	—	positive	Vc= 1.65 V ±1.65 V
Symmetry	SYM	45 % to 55 %	55 % Vcc level
Output voltage	VOH	90 % Vcc Min.	IOH = -2.8 mA
	VOL	10 % Vcc Max.	IOL = 2.8 mA
Output load condition	L_CMOS	15 pF Max.	CMOS
Rise/Fall times	Tr/Tf	5 ns Max.	at 20 % to 80 % Vcc level
Start-up time	T_str	10ms Max.	t=0 at 90 % Vcc

\*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

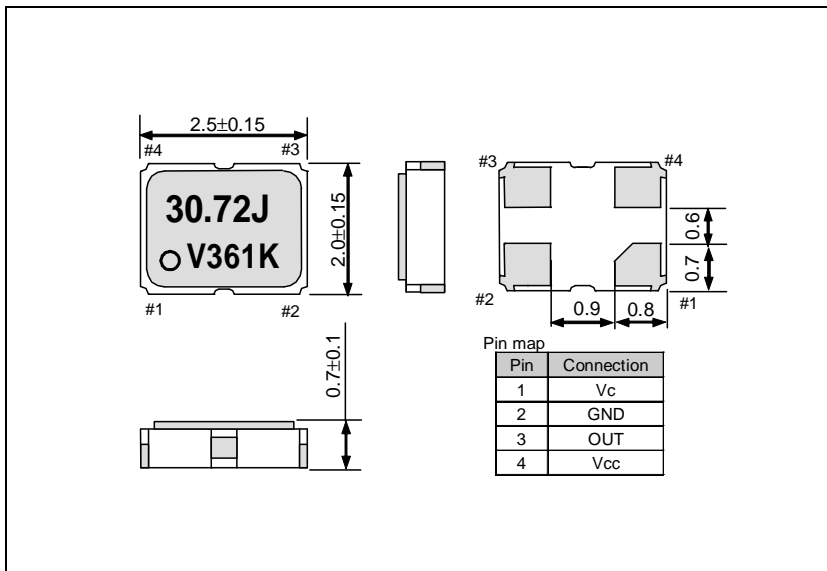
\* Please keep Vc pin open or ground while powering up Vcc.

**Output frequency range / Absolute pull range**

Output frequency range	Absolute pull range		
	±30 × 10 <sup>-6</sup> Min.	±50 × 10 <sup>-6</sup> Min.	±100 × 10 <sup>-6</sup> Min.
1.25MHz ≤ fo ≤ 40MHz	CJGNAB	CJGNBB	CJGNCB
40MHz < fo ≤ 80MHz			

**External dimensions**

(Unit :mm)



**Footprint (Recommended)**

(Unit :mm)

