



VOLTAGE-CONTROLLED CRYSTAL OSCILLATOR (VCXO)

VG-4231CB VG-4531CB

- Frequency range : 1 MHz to 80 MHz
- Supply voltage : 3.3 V
- Absolute pull range : $\pm 50 \times 10^{-6}$
- External dimensions: 5.0 × 3.2 × 1.2 t (mm) Typ.
- Function : Output enable(OE)



Product Number (please contact us)
 VG-4231CB : X1G002861xxxx00
 VG-4531CB : X1G002881xxxx00



Actual size



Specifications (characteristics)

Item	Symbol	Specifications		Remarks
		VG-4231CB	VG-4531CB	
Output frequency range	f _o	1.000 MHz to 60.000 MHz	60.001 MHz to 80.000 MHz	Please contact us for inquiries regarding available frequencies.
Supply voltage	V _{cc}	3.3 V ± 0.165 V		
Storage temperature range	T _{stg}	-55 °C to +125 °C		Store as bare product after unpacking
Operating temperature range	T _{use}	As per blow table.		
Frequency tolerance	f _{tol}	$\pm 50 \times 10^{-6}$ Max.		Includes frequency aging (20 years)
Current consumption	I _{cc}	10 mA Max.	15 mA Max.	No load condition.
Absolute pull range	APR	$\pm 50 \times 10^{-6}$ Min.		V _c = 1.65 V ± 1.5 V
Input resistance	R _{in}	10 M Ω Min.		DC level
Frequency change polarity	—	Positive slope		V _c = 0.15 to 3.15 V
Symmetry	SYM	45 % to 55 %		50 % V _{cc} level
High output voltage	V _{OH}	V _{cc} -0.4 V Min.		I _{OH} = -0.8 mA
Low output voltage	V _{OL}	0.4 V Max.		I _{OL} = 3.2 mA
Output load condition (CMOS)	L _{CMOS}	15 pF Max.		
Output enable / disable input voltage	V _{IH}	70 % V _{cc} Min.		V _{IH} or OPEN : Enable
	V _{IL}	30 % V _{cc} Max.		V _{IL} or GND : Disable
Rise time / Fall time	t _r / t _f	6 ns Max.		20 % V _{cc} to 80 % V _{cc} level
Start-up time	t _{str}	10 ms Max.		Time at minimum supply voltage to be 0 s
Frequency aging	f _{aging}	This is included frequency tolerance		+25 °C, V _{cc} =3.3 V, 20 years

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

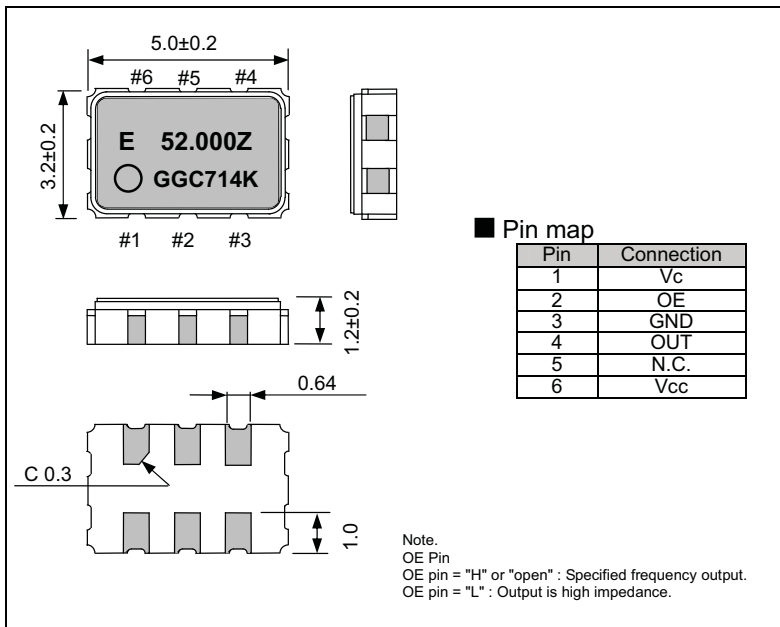
Temperature range

VG-4231CB	Operating temperature range
GGCZ	-40 °C ~ +85 °C
JGCZ	-20 °C ~ +70 °C
KGCZ	0 °C ~ +70 °C

VG-4531CB	Operating temperature range
GGCT	-40 °C ~ +85 °C
JGCT	-20 °C ~ +70 °C
KGCT	0 °C ~ +70 °C

External dimensions

(Unit :mm)



Footprint (Recommended)

(Unit :mm)

