



VOLTAGE -CONTROLLED CRYSTAL OSCILLATOR (VCXO)
OUTPUT : CMOS



Product Number
VG-4231CB: X1G002861xxxx00

VG-4231CB

- Frequency range : 1 MHz to 81 MHz
- Supply voltage : 3.3 V
- Absolute pull range : $\pm 50 \times 10^{-8}$
- Function : Output enable (OE)
- External dimensions: 5.0 × 3.2 × 1.2 mm



Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Output frequency range	f _o	1.000 MHz to 81.000 MHz	Please contact us about available frequencies.
Supply voltage	V _{cc}	C: 3.3 V ± 0.165 V	
Storage temperature range	T _{stg}	-40 °C to +85 °C	Storage as single product.
Operating temperature range	T _{use}	G: -40 to +85°C, J: -20 to +70°C, K: 0 to +70°C	
Frequency tolerance	f _{tol}	$\pm 50 \times 10^{-8}$ Max.	
Current consumption	I _{cc}	10 mA Max.	No load condition.
Absolute pull range	APR	G : $\pm 50 \times 10^{-8}$ Min.	V _c =1.65 V±1.5 V
Input resistance	R _{in}	10 MΩ 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
Output voltage	V _{OH}	V _{cc} to 0.4 V Min.	I _{OH} = -0.8 mA
	V _{OL}	0.4 V Max.	I _{OL} = 3.2 mA
Output load condition (CMOS)	L _{CMOS}	15 pF Max.	
Input voltage	V _{IH}	70 % V _{cc} Min.	
	V _L	30 % V _{cc} Max.	
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 _{age}	This is included in frequency tolerance specification.	+25 °C, V _{cc} =3.3 V, 20 years (f _o ≤ 60MHz), +25 °C, V _{cc} =3.3 V, 10 years (60MHz < f _o)

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

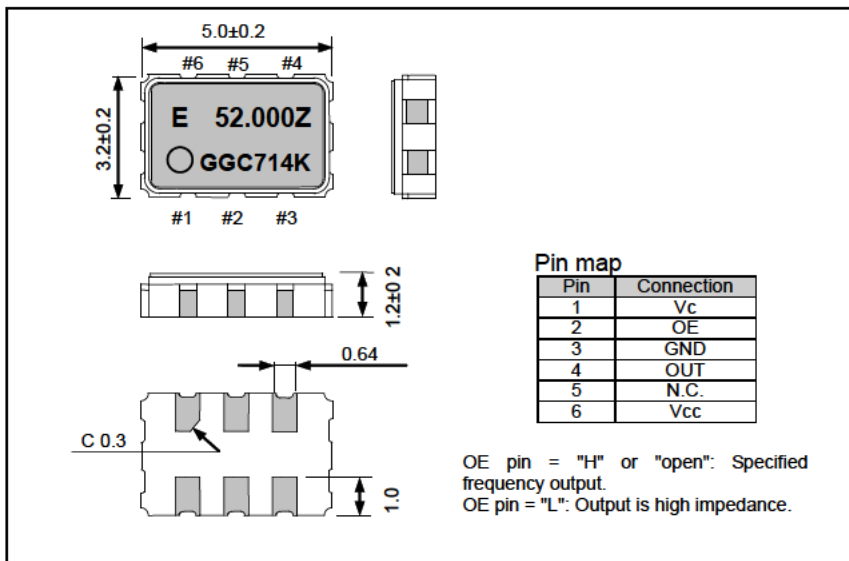
Product Name VG-4231CB52.000000MHzGGCZ
(Standard form) ① ② ③ ④⑤⑥⑦

①Model ②Package type ③Frequency ④Operating temperature range
⑤Absolute pull range ⑥Supply voltage (C: 3.3V Typ.) ⑦Function

④Operating temperature range	⑤Absolute pull range	⑦Function
G -40 to +85°C	G $\pm 50 \times 10^{-8}$ Min.	Z Output enable
J -20 to +70°C		
K 0 to +70°C		

External dimensions

(Unit: mm)



Footprint (Recommended)

(Unit: mm)

