



VOLTAGE-CONTROLLED CRYSTAL OSCILLATOR (VCXO)

VG-4231CB

- Frequency range : 1 MHz to 81 MHz
- Supply voltage : 3.3 V
- Absolute pull range : $\pm 50 \times 10^{-6}$
- Function : Output enable (OE)
- External dimensions: 5.0 × 3.2 × 1.2 mm



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



Actual size



Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Output frequency range	f _o	1.000 MHz to 81.000 MHz	Please contact us for inquiries regarding available frequencies.
Supply voltage	V _{cc}	3.3 V ±0.165 V	
Storage temperature range	T _{stg}	-40 °C to +85 °C	Store as bare product.
Operating temperature range	T _{use}	As per below table	
Frequency tolerance	f _{tol}	±50 × 10 ⁻⁶ Max.	
Current consumption	I _{cc}	10 mA Max.	No load condition.
Absolute pull range	APR	GCZ : ±50 × 10 ⁻⁶ 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 _{IL}	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 _{aging}	Be included in Frequency tolerance	+25 °C, V _{cc} =3.3 V, 20 years (f _o ≤ 60MHz), +25 °C, V _{cc} =3.3 V, 10 years (60MHz < f _o)

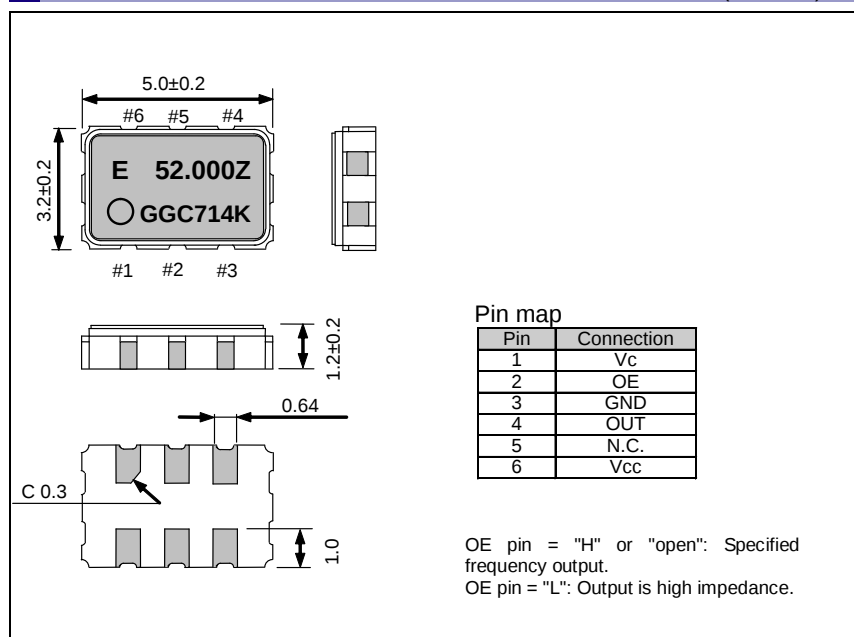
* Please keep V_c pin open or ground while powering up V_{cc}.

Operating temperature range

	Operating temperature
GGCZ	G: -40 °C to +85 °C
JGCZ	J: -20 °C to +70 °C
KGCZ	K: 0 °C to +70 °C

External dimensions

(Unit: mm)



Footprint (Recommended)

(Unit: mm)

