



TCXO HIGH STABILITY
105 °C HIGH TEMPERATURE



Product Number
TG7050CKN: X1G005661xxx99
TG7050SKN: X1G005671xxx99
TG7050CMN: X1G005681xxx99
TG7050SMN: X1G005691xxx99

TG7050CKN / SKN
TG7050CMN / SMN

- Frequency range : 10 MHz to 54 MHz
Supply voltage : 3.3 V Typ.
Frequency / temperature characteristics : ±0.1 × 10⁻⁶ Max. (-40 °C to +105 °C)
Free-run accuracy : ±4.6 × 10⁻⁶ Max. / 20 years (for Stratum3)
External dimensions : 7.0 × 5.0 × 1.5 mm (10 pins or 4 pins)
Applications : Network synchronization, Stratum3, BTS, SyncE, IEEE1588, Microwave, BTS
Features : 105 °C High temp, High stability



TG7050CKN
TG7050SKN
(10 pins)



TG7050CMN
TG7050SMN
(4 pins)

Specifications (characteristics)

Table with 5 columns: Item, Symbol, CMOS, Clipped sine wave, Condition. Rows include Output frequency range, Supply voltage, Storage temperature range, Operating temperature range, Frequency tolerance, Frequency/temperature characteristics, Frequency/load coefficient, Frequency/voltage coefficient, Frequency aging, Holdover stability, Wander generation, Free-run accuracy, Current consumption, Symmetry, Output voltage, Rise time / Fall time, Start-up time, Output level, Output load condition, Input voltage.

* Note : Please contact us for requirements not listed in this specification.

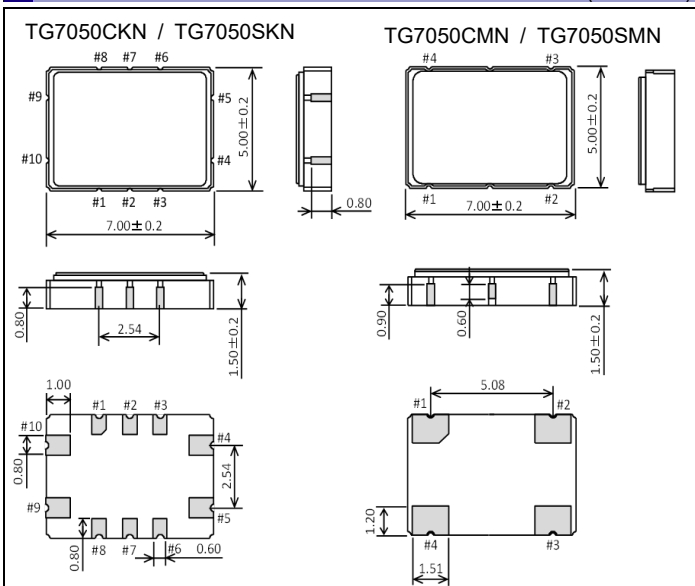
Product Name TG7050CKN30.720000MHzCAHHGA

(Standard form) ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Model ② Output (C: CMOS, S: Clipped sine wave) ③ Package type (K: 10 pins, M: 4 pins) ④ Frequency ⑤ Supply voltage (C: 3.3 V Typ.)
⑥ Frequency / temperature characteristics (A: ±0.1 × 10⁻⁶ Max.) ⑦ Operating temperature (H: -40 °C to +105 °C)
⑧ OE function (H: Active High, N: Non) ⑨ Vc function (G: Vc Non) ⑩ Internal identification code ("A" is default)

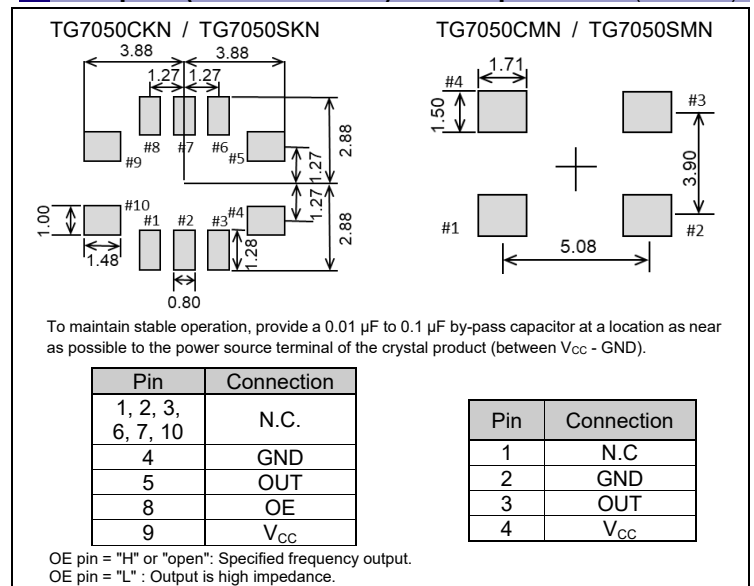
External dimensions

(Unit : mm)



Footprint (Recommended) / Pin Map

(Unit : mm)



To maintain stable operation, provide a 0.01 µF to 0.1 µF by-pass capacitor at a location as near as possible to the power source terminal of the crystal product (between Vcc - GND).

Table with 2 columns: Pin, Connection. Rows: 1, 2, 3, 6, 7, 10 (N.C.); 4 (GND); 5 (OUT); 8 (OE); 9 (Vcc)

Table with 2 columns: Pin, Connection. Rows: 1 (N.C); 2 (GND); 3 (OUT); 4 (Vcc)

OE pin = "H" or "open": Specified frequency output.
OE pin = "L": Output is high impedance.

► Explanation of the mark that are using it for the catalog

	<p>► Pb free.</p>
	<p>► Complies with EU RoHS directive. *About the products without the Pb-free mark. Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)</p>
	<p>► Designed for automotive general equipment.</p>
	<p>► Designed for automotive applications related to driving and safety.</p>

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