



CRYSTAL OSCILLATOR (SPXO)

OUTPUT : CMOS



Product Number
SG5032CCN: X1G004471xxxx00
SG7050CCN: X1G004501xxxx00

SG5032CCN SG7050CCN

- Frequency range : 2.5 MHz to 50 MHz (Fundamental mode)
- Supply voltage : 5.0 V Typ.
- Function : Output enable (OE)
- Output : CMOS



SG5032CCN
(5.0 × 3.2 × 1.1 mm)



SG7050CCN
(7.0 × 5.0 × 1.3 mm)

Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Output frequency range	fo	2.5 MHz to 50 MHz	Please contact us about available frequencies.
Supply voltage	V _{CC}	H: 4.5 V to 5.5 V	
Storage temperature	T _{STG}	-40 °C to +125 °C	Storage as single product.
Operating temperature	T _{USE}	B: -20 °C to +70 °C, G: -40 °C to +85 °C	
Frequency tolerance	f _{TOL}	J: ±50 × 10 ⁻⁶	-20 °C to +70 °C, -40 °C to +85 °C
Current consumption	I _{CC}	20 mA Max.	No load condition Maximum frequency.
Disable current	I _{DIS}	10 mA Max.	OE = GND
Symmetry	SYM	40 % to 60 %	50 % V _{CC} level, L _{CMOS} ≤ 50 pF
Output voltage	V _{OH}	V _{CC} - 0.4 V Min.	I _{OH} = -8 mA
	V _{OL}	0.4 V Max.	I _{OL} = 16 mA
Output load condition	L _{CMOS}	50 pF Max.	
Input voltage	V _{IH}	80 % V _{CC} Min.	
	V _{IL}	20 % V _{CC} Max.	OE terminal
Rise time / Fall time	t _{TR} / t _{TF}	5 ns Max.	20 % V _{CC} to 80 % V _{CC} level, L _{CMOS} ≤ 50 pF
Start-up time	t _{OSC}	4 ms Max.	t = 0 at 90 % V _{CC}
Frequency aging	f _{AGE}	±5 × 10 ⁻⁶ / year Max.	+25 °C, First year.

Product Name **SG7050 C CN 25.000000MHz H J G A**
 (Standard form) ① ② ③ ④ ⑤ ⑥ ⑦

① Model ② Output (C: CMOS) ③ Frequency
 ④ Supply voltage ⑤ Frequency tolerance
 ⑥ Operating temperature range ⑦ Internal identification code ("A" is default)

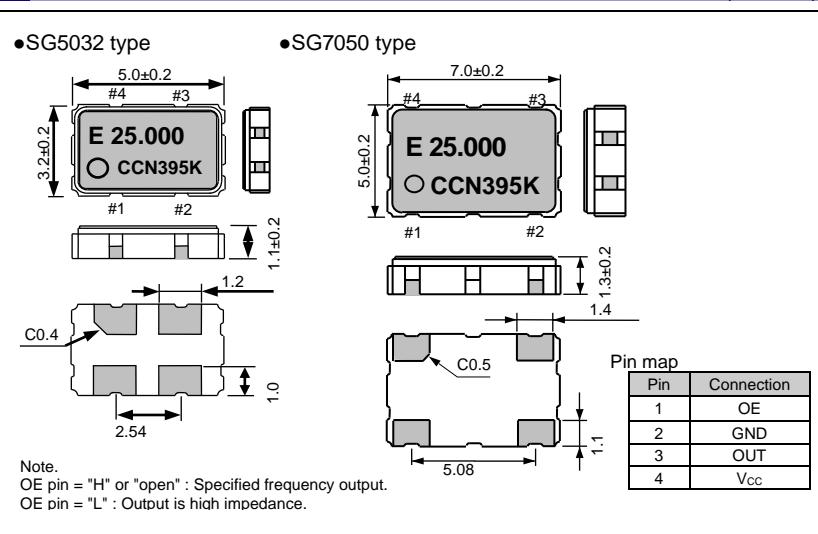
④ Supply voltage
 H 5.0 V Typ.

⑤ Frequency tolerance
 J ±50 × 10⁻⁶

⑥ Operating temperature range
 B -20 °C to +70 °C
 G -40 °C to +85 °C

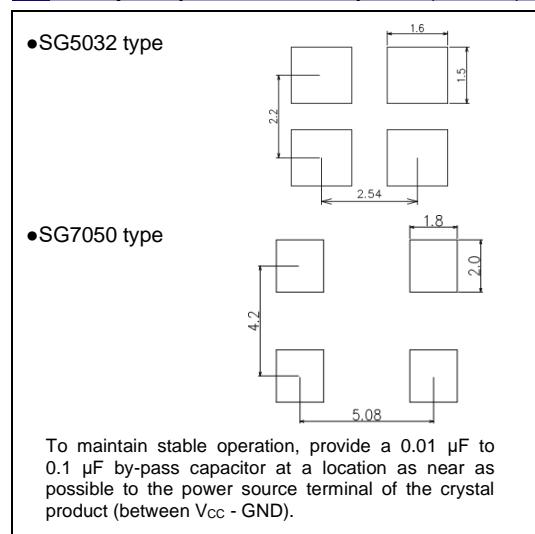
External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



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

	► Pb free.
	► 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.)
	► Designed for automotive general equipment.
	► Designed for automotive applications related to driving and safety.

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