

CRYSTAL OSCILLATOR (SPXO)

OUTPUT: CMOS



Product Number SG5032CCN: X1G004471xxxx00 SG7050CCN: X1G004501xxxx00

SG5032CCN SG7050CCN

•Frequency range : 2.5 MHz to 50 MHz (Fundamental mode)

: 5.0 V Typ. Supply voltage

Function : Output enable (OE)

Output : CMOS



SG5032CCN $(5.0 \times 3.2 \times 1.1 \text{ mm})$



SG7050CCN $(7.0 \times 5.0 \times 1.3 \text{ mm})$

Specifications (characteristics)

Itom	Cumbal	Chaoifications	Conditions / Remarks	
Item	Symbol	Specifications		
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.	$I_{OH} = -8 \text{ mA}$	
	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.	OE terminal	
	V _{IL}	20 % V _{CC} Max.		
Rise time / Fall time	tr / tf	5 ns Max.	20 % V_{CC} to 80 % V_{CC} level, L_CMOS \leq 50 pF	
Start-up time	tOSC	4 ms Max.	t = 0 at 90 % V _{CC}	
Frequency aging	f_age	$\pm 5 \times 10^{-6}$ / year Max.	+25 °C, First year.	

Product Name (Standard form)

External dimensions

SG5032 C CN 25.000000MHz H J G A 3 4567

②Output (C: CMOS) ③Frequency ①Model

6Operating temperature range 7Internal identification code ("A" is default)

Pin map

Pin

④Supply voltage		⑤Frequency tolerance	
H 5.0 V Typ.		J	±50 × 10 ⁻⁶

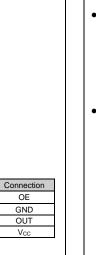
6Operating temperature range			
В	-20 °C to +70 °C		
G	-40 °C to +85 °C		

●SG5032 type ●SG7050 type 7.0±0.2 5.0±0.2 E 25.000 E 25.000 CCN395K **CCN395K** #2 HÌ

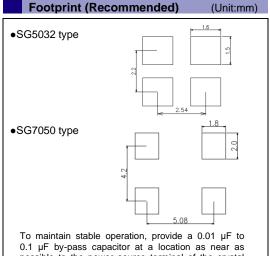
C0.5

5.08

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



(Unit:mm)



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).

PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

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IATF 16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

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.





▶ Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.



▶ Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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