

SEIKO EPSON CORPORATION

CRYSTAL OSCILLATOR (SPXO) OUTPUT : CMOS

SG5032CCN **SG7050CCN**

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



Product Number SG5032CCN: X1G004471xxxx00 SG7050CCN: X1G004501xxxx00



(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	Icc	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 \leq 15 pF
Output voltage	V _{OH}	90 % V _{cc} Min.	
	V _{OL}	10 % V _{cc} Max.	
Output load condition	L_CMOS	50 pF Max.	
Input voltage	V _{IH}	80 % V _{cc} Min.	→ sī ,OE terminal
	VIL	20 % V _{CC} Max.	
Rise time / Fall time	tr / tf	5 ns Max.	20 % V _{CC} to 80 % V _{CC} level, L_CMOS = 15 pF
Start-up time	t_str	5 ms Max.	t = 0 at 90 % V _{CC} , +85 °C
Frequency aging	f_age	$\pm5 imes10^{-6}$ / year Max.	+25 °C, First year.

Product Nam (Standard form)

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④Supply voltageH 5.0 V Typ.

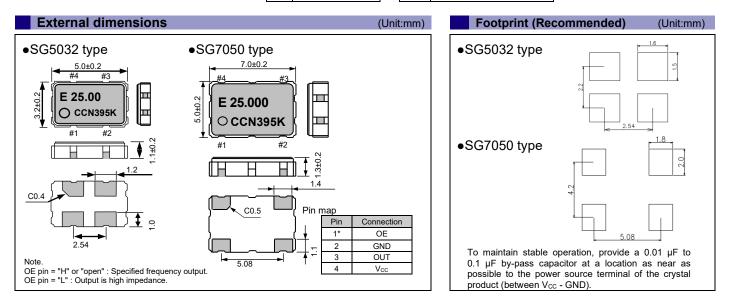
SG5032 C CN 125.000000MHz H J G A (56: Available code JB,JG,LG)

45672 Output (C: CMOS) ③Frequency ①Model

(4) Supply voltage (5) Frequency tolerance

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

> ⑤Frequency tolerance J ±50 × 10⁻⁶
> ⑥Operating temperature range
>
>
> B
> -20 °C to +70 °C
>
>
> G
> -40 °C to +85 °C
> ±100 × 10



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.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs, Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired IATF 16949 certification that is requested strongly by major automotive manufacturers as standard.

Explanation of the mark that are using it for the catalog

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.

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

Pb Free	► Pb free.		
RoHS	 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.) 		
For Automotive	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.		
Automotive Safety	► Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).		

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Other applications requiring similar levels of reliability as the above

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