

CRYSTAL OSCILLATOR (SPXO)

OUTPUT : CMOS

SG5032CAN / CBN / CCN

SG7050CAN / CBN / CCN

- Frequency range : CAN 1 to 75 MHz (Fundamental mode)
: CBN 80 to 170 MHz (Fundamental mode)
: CCN 2.5 to 50 MHz (Fundamental mode)
- Supply voltage : CAN / CBN 1.8 V to 3.6 V Typ.
: CCN 5.0 V Typ.
- Function : CAN / CBN Standby(\overline{ST})
: CCN Output enable(OE)
- Output : CMOS



Product Number (please contact us)
 SG5032CAN: X1G004451xxxx00
 SG5032CBN: X1G004461xxxx00
 SG5032CCN: X1G004471xxxx00
 SG7050CAN: X1G004481xxxx00
 SG7050CBN: X1G004491xxxx00
 SG7050CCN: X1G004501xxxx00



SG5032CAN/CBN/CCN
(5.0 x 3.2 x 1.1 mm)



SG7050CAN/CBN/CCN
(7.0 x 5.0 x 1.3 mm)

Actual size

SG5032CAN /CBN/CCN

SG7050CAN /CBN/CCN

Specifications (characteristics)

Item	Symbol	Specifications			Conditions / Remarks
		SG5032CAN SG7050CAN	SG5032CBN SG7050CBN	SG5032CCN SG7050CCN	
Output frequency range	f_0	1 MHz to 75 MHz T: 1.6 V to 3.63 V T: 1.71 V to 3.63 V K: 2.25 V to 3.63 V	80 MHz to 170 MHz T: 1.6 V to 3.63 V	2.5 MHz to 50 MHz H: 4.5 V to 5.5 V	Please contact us about available frequencies. 1 MHz $\leq f_0 \leq$ 60 MHz 60 MHz $< f_0 \leq$ 75 MHz, +85 °C Max. 60 MHz $< f_0 \leq$ 75 MHz, +105 °C Max. See *1 (CAN)
Supply voltage	V_{CC}				
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 H: -40 °C to +105 °C			See of figure *1 (CAN)
Frequency tolerance	f_{tol}	D (Only CAN type) : $\pm 25 \times 10^{-6}$, J : $\pm 50 \times 10^{-6}$			-20 °C to +70 °C
		J : $\pm 50 \times 10^{-6}$			-40 °C to +85 °C
		K : $\pm 100 \times 10^{-6}$			-40 °C to +105 °C
		L : $\pm 100 \times 10^{-6}$			-40 °C to +105 °C
Current consumption	I_{CC}	3.0 mA Max.	11 mA Max.	20 mA Max.	No load condition Maximum frequency.
Stand-by current	I_{std}	2.7 μ A Max.	10 μ A Max.	-	\overline{ST} = GND
Disable current	I_{dis}	-	-	10 mA Max.	OE = GND
Symmetry	SYM	45 % to 55 %		40 % to 60 %	50 % V_{CC} level, $L_{CMOS} \leq 15$ pF
Output voltage	V_{OH}	$V_{CC} - 0.4$ Min.			
	V_{OL}	0.4 V Max.			
Output load condition	L_{CMOS}	15 pF Max.		50 pF Max.	CMOS load
Input voltage	V_{IH}	80 % V_{CC} Min.			\overline{ST} , OE terminal
	V_{IL}	20 % V_{CC} Max.			
Rise time / Fall time	t_r / t_f	3 ns Max. 3.5nsMax.(@1.8V \pm 10%)	3 ns Max.	5 ns Max.	20 % V_{CC} to 80 % V_{CC} level, $L_{CMOS} = 15$ pF
	t_{str}	3 ms Max.	5 ms Max.		$t=0$ at 90 % V_{CC} +85°C,(+105°C)
Frequency aging	f_{aging}	$\pm 3 \times 10^{-6}$ / year Max.	$\pm 5 \times 10^{-6}$ / year Max.		+25 °C, First year.

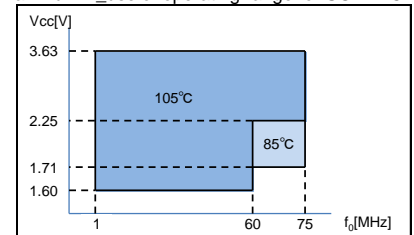
*1 : Maximum T_{use} of operating range for SGxxxxCAN

Product Nam SG5032 C AN 25.000000MHz T J G A (ⓈⓈ: Available code DB,JB,JG,JH,LG,LH)
 (Standard form) ① ② ③ ④⑤⑥⑦
 ①Model ②Output (C:CMOS) ③Frequency
 ④Supply voltage ⑤Frequency tolerance
 ⑥Operating temperature range ⑦Internal identification code ("A" is default)

④Supply voltage	
T	1.6 to 3.63 V
	1.71 ~ 3.63 V See *1
K	2.25 ~ 3.63 V (CAN)
H	4.5 ~ 5.5 V

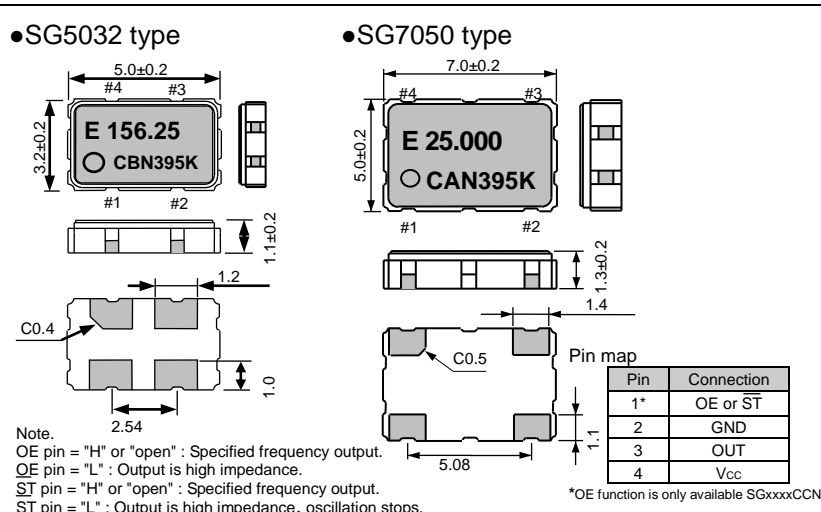
⑤Frequency tolerance	
D	$\pm 25 \times 10^{-6}$
J	$\pm 50 \times 10^{-6}$
L	$\pm 100 \times 10^{-6}$

⑥Operating temperature range	
B	-20 to +70°C
G	-40 to +85°C
H	-40 to +105°C



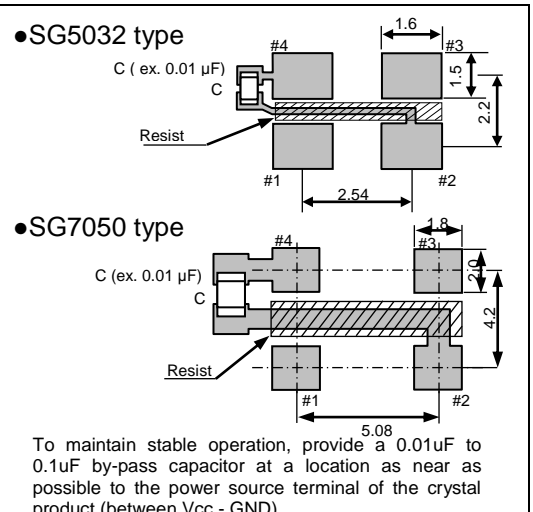
External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



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.

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 ISO/TS 16949 certification that is requested strongly by major automotive manufacturers as standard.

ISO/TS16949 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. (Contains Pb in sealing glass, high melting temperature type solder or other.)
	► 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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