

CRYSTAL OSCILLATOR (SPXO)

OUTPUT : CMOS

SG5032CAN / CBN / CCN

SG7050CAN / CBN / CCN



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

- 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



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

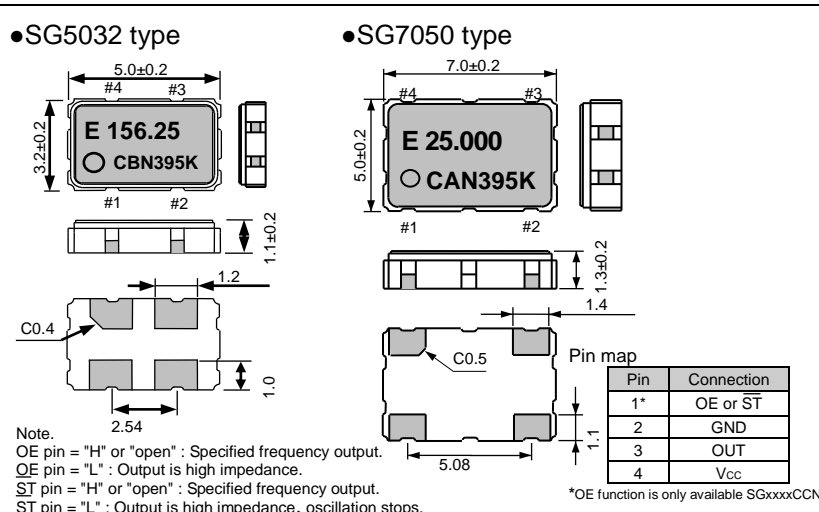
Product Nam SG5032 C AN 25.000000MHz T J G A (ⓈⓈ: Available code DB,JB,JG,JH,LG,LH)
 (Standard form) ① ② ③ ④⑤⑥⑦
 ①Model ②Output (C:CMOS) ③Frequency
 ④Supply voltage ⑤Frequency tolerance
 ⑥Operating temperature range ⑦Internal identification code ("A" is default)

④Supply voltage		⑤Frequency tolerance		⑥Operating temperature range	
T	1.6 to 3.63 V	D	$\pm 25 \times 10^{-6}$	B	-20 to +70°C
	1.71 ~ 3.63 V	J	$\pm 50 \times 10^{-6}$	G	-40 to +85°C
K	2.25 ~ 3.63 V	L	$\pm 100 \times 10^{-6}$	H	-40 to +105°C
H	4.5 ~ 5.5 V				



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.

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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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