

CRYSTAL OSCILLATOR (SPXO) NEW

OUTPUT : CMOS

**SG5032CAN / CBN / CCN
SG7050CAN / CBN / CCN**

- Frequency range : 1 MHz to 170 MHz (Fundamental mode)
- Supply voltage : 1.8 V to 5.0 V
- Function : Standby(\overline{ST}) ...SGxxxCAN / CBN
: Output enable(OE) ...SGxxxCCN
- Output : CMOS



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



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



SG7050CAN/CBN/CCN
(7.0 × 5.0 × 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	80 MHz to 170 MHz	2.5 MHz to 50 MHz	Please contact us about available frequencies.
Supply voltage	V_{CC}	T: 1.6 V to 3.6 V		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}	G: -40 °C to +85 °C			
		H: -40 °C to +105 °C	-		
Frequency tolerance	f_{tol}	J: $\pm 50 \times 10^{-6}$			-40 °C to +85 °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 (CMOS)	L_{CMOS}	15 pF Max.		50 pF Max.	
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	4 ns Max.	3 ns Max.	5 ns Max.	20 % V_{CC} to 80 % V_{CC} level, $L_{CMOS} = 15$ pF
Start-up time	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.

Product Name SG5032 C AN 25.000000MHz T J G A (ⓄⓄ: JH is not available)

(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

Ⓞ Supply voltage	
T	1.6 to 3.6 V
H	4.5 to 5.5 V

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

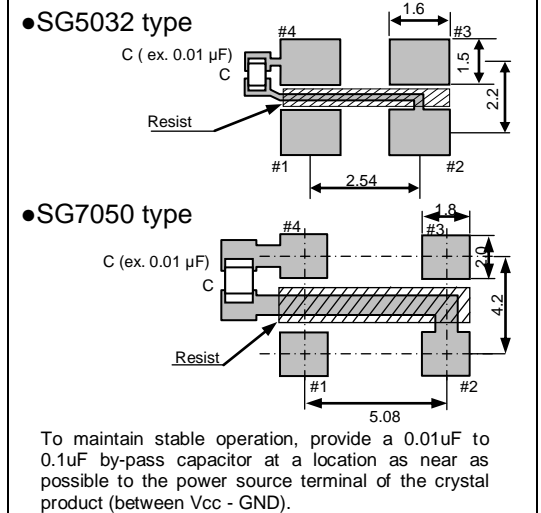
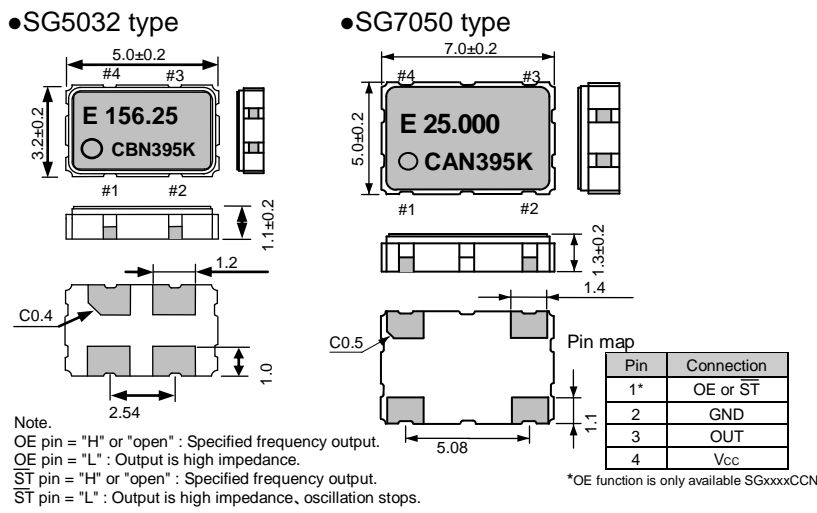
Ⓞ Operating temperature range	
G	-40 to +85°C
H	-40 to +105°C

External dimensions

(Unit:mm)

Footprint (Recommended)

(Unit:mm)



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