

OUTPUT: CMOS



SG5032CAN/CBN/CCN SG7050CAN/CBN/CCN

•Frequency range : 1 MHz to 170 MHz (Fundamental mode)

1.8 V to 5.0 V Supply voltage

Function ···SGxxxxCAN / CBN Standby(ST)

Output enable(OE) \cdots SGxxxxCCN

 Output **CMOS**





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



SG5032CAN/CBN/CCN $(5.0 \times 3.2 \times 1.1 \text{ mm})$

Actual sizè

SG5032CAN /CBN/CCN SG7050CAN /CBN/CCN



SG7050CAN/CBN/CCN $(7.0 \times 5.0 \times 1.3 \text{ mm})$

Specifications (characteristics)

Item	Symbol	SG5032CAN	Specifications SG5032CBN	SG5032CCN	Conditions / Remarks
		SG7050CAN	SG7050CBN	SG7050CCN	
Output fraguancy range	fo	1 MHz to 75 MHz 80 MHz to 170 MHz	0 5 MHz 45 50 MHz	Please contact us about available	
Output frequency range			00 IVITZ (0 170 IVITZ	2.5 MHz to 50 MHz	frequencies.
Supply voltage	Vcc	T: 1.6 V	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	-		
Eroguanov talaranaa	f_tol	J: ±50 × 10 ⁻⁶		-40 °C to +85 °C	
Frequency tolerance		L: ±100 × 10 ⁻⁶	=	-	-40 °C to +105 °C
Current consumption	Icc	3.0 mA Max.	11 mA Max.	20 mA Max.	No load condition Maximum frequency.
Stand-by current	I_std	2.7 μA Max.	10 μA Max.	-	ST =GND
Disable current	I_dis	-	-	10 mA Max.	OE=GND
Symmetry	SYM	45 % to 55 % 40 % to 60 %		50 % Vcc level, L_CMOS ≤ 15 pF	
Cutout voltage	Voн	Vcc-0.4 Min.			
Output voltage	Vol	0.4 V Max.			
Output load condition (CMOS)	L_CMOS	15 pF Max. 50 pF Max.		50 pF Max.	
Input voltage	ViH	80 % Vcc Min.		ST, OE terminal	
	VIL	20 % Vcc Max.			
Rise time / Fall time	tr/ tf	4 ns Max.	3 ns Max.	5 ns Max.	20 % Vcc to 80 % Vcc level, L_CMOS =15 pF
Start-up time	t_str	3 ms Max. 5 ms Max.		t=0 at 90 % Vcc +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 (Standard form) SG5032 C AN 25.000000MHz T J G A

(56: JH is not available)

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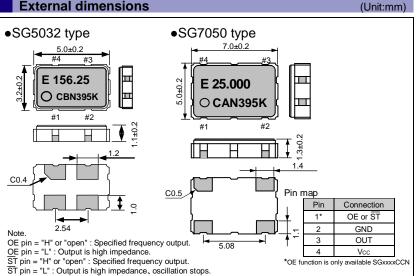
③Frequency ④Supply voltage ⑤Frequency tolerance ②Output (C:CMOS) ①Model

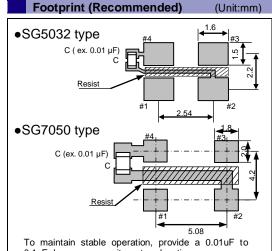
Т	1.6 to 3.6 V			
Г	15 to 5 5 V			

	⑤Fr	⑤Frequency tolerance		
J		±50 × 10 ⁻⁶		
	L	±100 × 10 ⁻⁶		

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

External dimensions





0.1uF by-pass capacitor at a location as near as possible to the power source terminal of the crystal product (between Vcc - GND).