Clock OSC

SG5032CAN

Product name SG5032CAN Product Number / Ordering code

38.400000 MHz TJGA X1G0044510090xx

Please refer to the 8.Packing information about xx (last 2 digits)

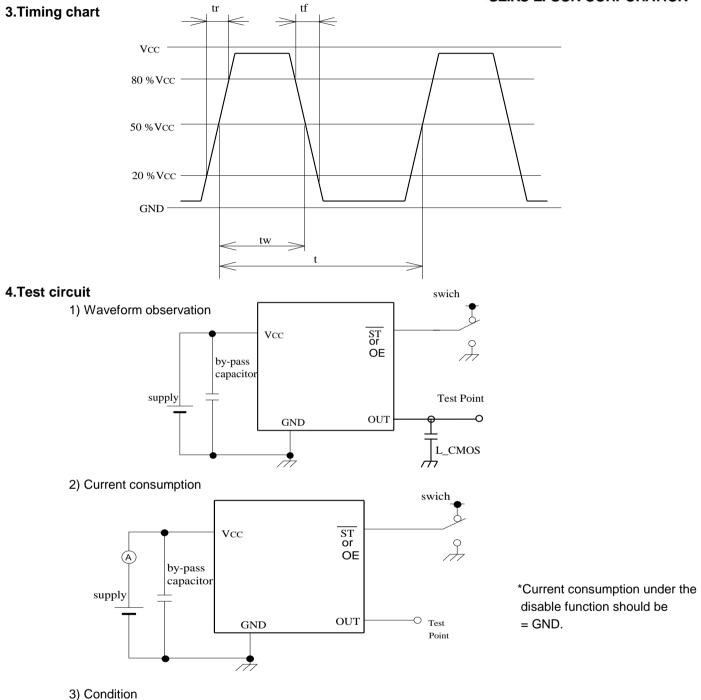
Output waveform CMOS

Pb free / Complies with EU RoHS directive

Reference weight Typ. 52 mg						
1.Absolute maximum rating	S					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Maximum supply voltage	Vcc-GND	-0.3	-	4	V	-
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product
Input voltage	Vin	-0.3	-	Vcc+0.3	V	ST terminal

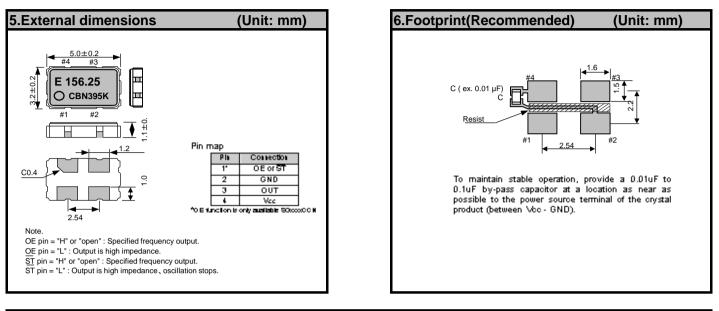
2.Specifications(charac Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
	f0	IVIIII.	38.4000	IVIAX.	MHz	
Dutput frequency	Vcc	1.6	38.4000	2.6	V	
Supply voltage			-	3.6	 ℃	-
Operating temperature	T_use	-40	-	+85	-	-
Frequency tolerance	f_tol	-50	-	50	x10 ⁻⁶	T_use
Current consumption	lcc	-	-	3	mA	No load condition
Stand-by current	l_std	-	-	2.7	μA	ST = GND
Disable current	I_dis	-	-	-	mA	-
Symmetry	SYM	45	-	55	%	50% Vcc Level L_CMOS=<15pF
Dutput voltage	V _{OH}	Vcc-0.4	-	-		-
	V _{OL}	-	-	0.4		-
Dutput load condition	L_CMOS	-	-	15	pF	CMOS Load
nput voltage	V _{IH}	0.8Vcc	-	-		ST terminal
	V _{IL}	-	-	0.2Vcc		ST terminal
Rise time	t _r	-	-	4	ns	Vcc1.6V : 0.2Vcc to 0.8Vcc Level, L_CMOS=15pF
Fall time	tf	-	-	4	ns	Vcc1.6V : 0.2Vcc to 0.8Vcc Level, L_CMOS=15pF
Start-up time	t_str	-	-	3	ms	t = 0 at 0.9Vcc
Jitter	t _{DJ}	-	0	-	ps	Deterministic Jitter Vcc=3.3V
	t _{RJ}	-	2.4	-	ps	Random Jitter Vcc=3.3V
	t _{RMS}	-	2.3	-	ps	δ(RMS of total distribution) Vcc=3.3V
	t _{p-p}	-	20	-	ps	Peak to Peak Vcc=3.3V
	t _{acc}	-	2.5	-	ps	Accumulated Jitter(δ) n=2 to 50000 cycles, Vcc=3.3V
Phase jitter	t _{PJ}	-	0.27	-	ps	Off set Frequency: 12kHz to 20MHz, Vcc=3.3V
Phase noise	L(f)	-	-	-	dBc/Hz	-
	()	-	-93	-	dBc/Hz	Off set 10Hz Vcc=3.3V
		-	-122	-	dBc/Hz	Off set 100Hz Vcc=3.3V
		-	-144	-	dBc/Hz	Off set 1kHz Vcc=3.3V
		-	-154	-	dBc/Hz	Off set 10kHz Vcc=3.3V
		-	-158	-	dBc/Hz	Off set 100kHz Vcc=3.3V
		-	-159	-	dBc/Hz	Off set 1MHz Vcc=3.3V
Frequency aging	f_age	-3	-	3	x10 ⁻⁶	@+25°C first year
66. (01	~30	Ũ	_	C	X10	

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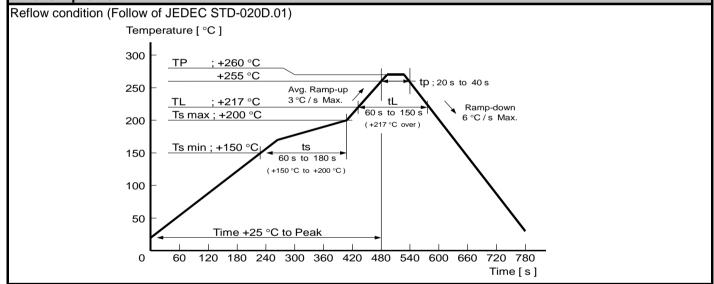


- (1) Oscilloscope
- Band width should be minimum 5 times higher (wider) than measurement frequency.
- · Probe earth should be placed closely from test point and lead length should be as short as possible
- * Recommendable to use miniature socket. (Don't use earth lead.)
- (2) L_CMOS also includes probe capacitance.
- (3) By-pass capacitor (0.01 μ F to 0.1 μ F) is placed closely between VCC and GND.
- (4) Use the current meter whose internal impedance value is small.
- (5) Power supply
- \cdot Start up time (0 %VCC to 90 %VCC) of power source should be more than 150 $\mu s.$
- \cdot Impedance of power supply should be as lowest as possible.

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7.Reflow profile

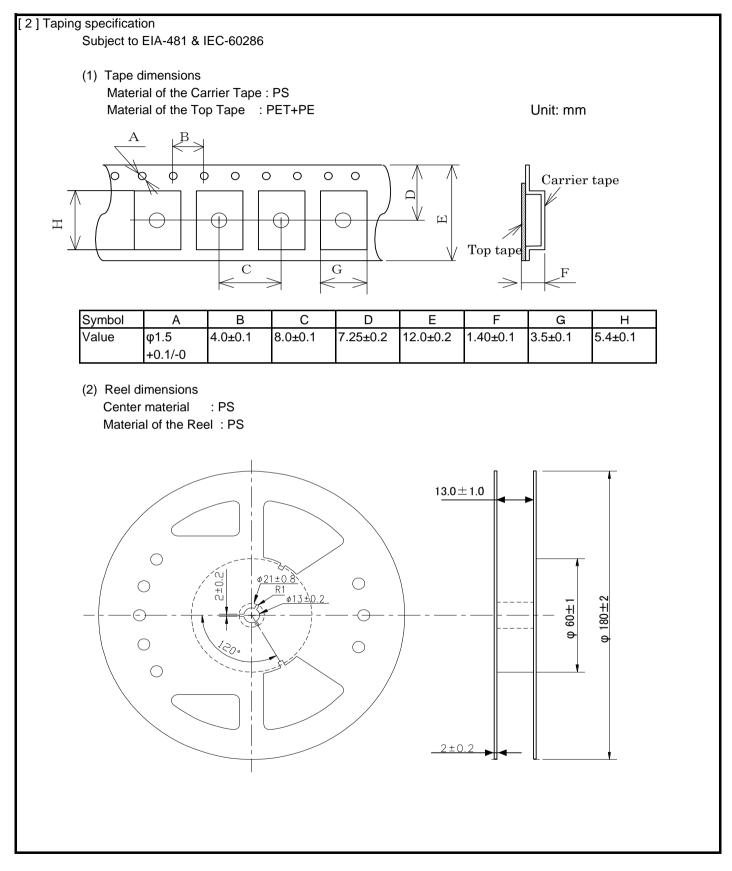


8.Packing information

[1]Product number last 2	digits	code(xx)	description
	X1G0044510	000xx	<i>,</i>	

The recommended code is "00"

Code	Condition	Code	Condition	
01	Any Q'ty vinyl bag(Tape cut)	13	500pcs / Reel	
11	Any Q'ty / Reel	00	1000pcs / Reel	
12	250pcs / Reel			



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	/ Traffic control equipment
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