Clock OSC

SG5032CAN

Product name SG5032CAN 6.144000 MHz TJGA Product Number / Ordering code X1G0044510057xx

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

Output waveform CMOS

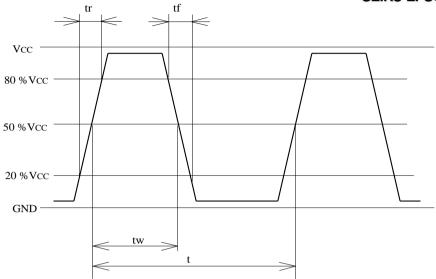
Pb free / Complies with EU RoHS directive

Reference weight Typ. 52 mg

1.Absolute maximum ratings							
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Maximum supply voltage	Vcc-GND	-0.3	-	4	V	-	
Storage temperature	T_stg	-40	-	+125	٥C	Storage as single product	
Input voltage	Vin	-0.3	-	Vcc+0.3	V	ST terminal	

2.Specifications(charac	teristics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Output frequency	f0		6.1440		MHz		
Supply voltage	Vcc	1.6	-	3.6	V	-	
Operating temperature	T_use	-40	-	+85	٥C	-	
Frequency tolerance	f_tol	-50	-	50	x10 ⁻⁶	T_use	
Current consumption	Icc	•	-	3	mA	No load condition	
Stand-by current	I_std	ı	-	2.7	μΑ	ST = GND	
Disable current	I_dis	•	-	-	mA	-	
Symmetry	SYM	45	-	55	%	50% Vcc Level L_CMOS=<15pF	
Output voltage	V_{OH}	Vcc-0.4	-	-		-	
	V_{OL}	•	-	0.4		-	
Output load condition	L_CMOS		-	15	pF	CMOS Load	
Input voltage	V_{IH}	0.8Vcc	-	-		ST terminal	
	V_{IL}	•	-	0.2Vcc		ST terminal	
Rise time	t _r	i	-	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}	-	-	-	ps	-	
Phase noise	L(f)	-	-	-	dBc/Hz	-	
	,	-	-	-	dBc/Hz	-	
		-	-	-	dBc/Hz	-	
		-	-	-	dBc/Hz	-	
		-	-	-	dBc/Hz	-	
		-	-	-	dBc/Hz	-	
		-	-	-	dBc/Hz	-	
Frequency aging	f_age	-3	-	3	x10 ⁻⁶	@+25°C first year	
		-	-			-	

3.Timing chart



4.Test circuit

touit

1) Waveform observation

by-pass capacitor

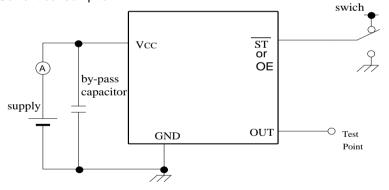
supply

GND

OUT

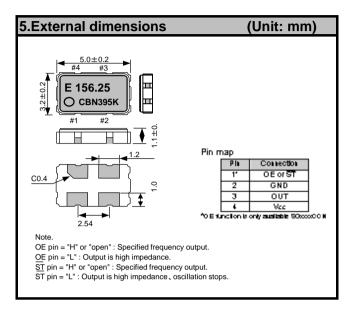
L_CMOS

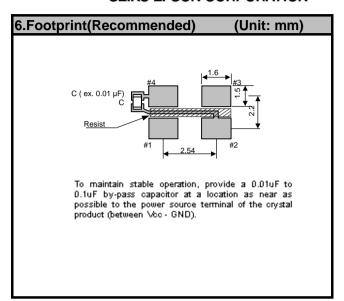
2) Current consumption

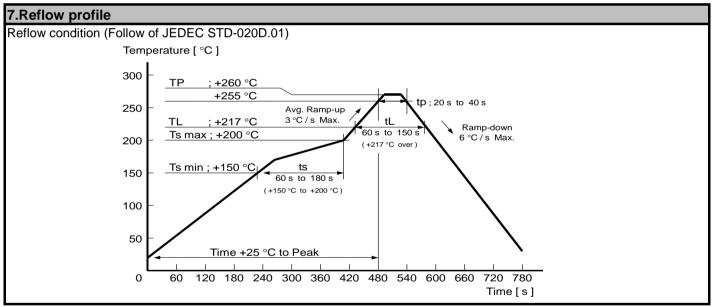


*Current consumption under the disable function should be = GND.

- 3) Condition
- (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
- · Start up time (0 %VCC to 90 %VCC) of power source should be more than 150 µs.
- · Impedance of power supply should be as lowest as possible.







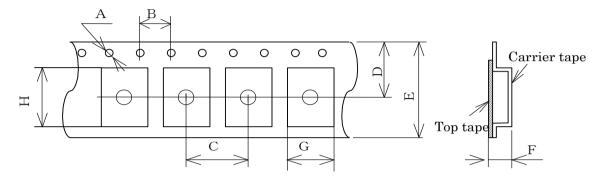
8.Packing	g informa	tion		
[1]Produc	t number la	ast 2 digits code(xx) description		The recommended code is "00"
	X1G0044	1510057xx		
	Code	Code Condition		Condition
	01	Any Q'ty vinyl bag(Tape cut)	13	500pcs / Reel
	11	Any Q'ty / Reel	00	1000pcs / Reel
	12	250pcs / Reel		

[2] Taping specification Subject to EIA-481 & IEC-60286

(1) Tape dimensions

Material of the Carrier Tape : PS Material of the Top Tape : PET+PE

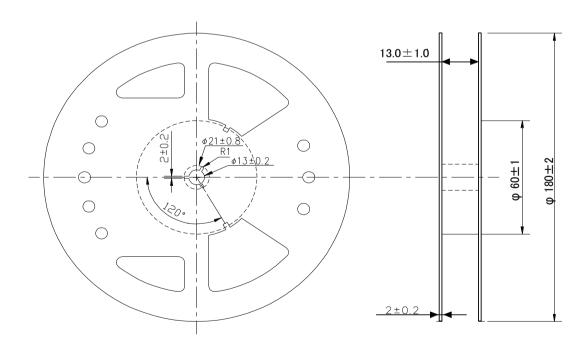
Unit: mm



Symbol	Α	В	С	D	Е	F	G	Н
Value	φ1.5	4.0±0.1	8.0±0.1	7.25±0.2	12.0±0.2	1.40±0.1	3.5±0.1	5.4±0.1
	+0.1/-0							

(2) Reel dimensions

Center material : PS Material of the Reel : PS



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