Programmable Clock OSC SG-8018CG

Product name SG-8018CG 80.00000 MHz TJHSA Product Number / Ordering code X1G0056010065xx

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. 13 mg

1.Absolute maximum ratings						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Maximum supply voltage	Vcc-GND	-0.3	-	+4.0	V	-
Storage temperature	T_stg	-40	-	+125	٥C	Stored as bare product after unpacking
Input voltage	Vin	GND-0.5	-	Vcc+0.3	V	ST or OE terminal

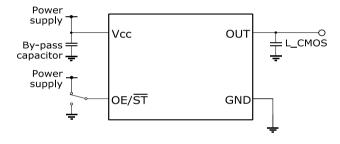
2.Specifications(characteris	tics)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Output frequency	fO		80.000000		MHz		
Supply voltage	Vcc	1.62	-	3.63	V	Typ. 1.8V / 2.5V / 3.3V	
Operating temperature	T_use	-40	-	+105	°C	-	
Frequency tolerance	f_tol	-50	-	+50	x10 ⁻⁶	T_use : -40 to +105°C	
Current consumption	lcc	-	-	5.9	mA	Vcc=3.3V Typ., No load	
Stand-by current	I_std	-	-	2.5	μA	Vcc=3.3V Typ., ST=GND	
Disable current	I_dis	-	-	-	mA	-	
Symmetry	SYM	45	-	55	%	50%Vcc, L_CMOS=<15pF	
Output voltage	V _{OH}	90%Vcc	-	-	V	-	
	V _{OL}	-	-	10%Vcc	V	-	
Output load condition	L_CMOS	-	-	15	pF	CMOS Load	
Input voltage	V _{IH}	70%Vcc	-	-	V	ST Terminal	
	V _{IL}	-	-	30%Vcc	V	ST Terminal	
Rise time	t _r	-	-	3	ns	20% to 80%Vcc,L_CMOS=15pF	
Fall time	tf	-	-	3	ns	20% to 80%Vcc,L_CMOS=15pF	
Disable time	t_stp	-	-	1	μs	Measured from the time OE or ST pin crosses 30%Vcc	
Enable time	t_sta	-	-	-	μs	-	
Resum time	t_res	-	-	3	ms	Measured from the time STpin crosses 70%Vcc	
Start-up time	t_str	-	-	3	ms	Measured from the time Vcc reaches its rated minimum value, 1.62V	
Frequency aging	f_age	-	-	-	x10 ⁻⁶ /Year	Included in Frequency tolerance 10 years	

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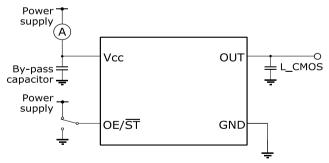
3.Timing chart

4.Test circuit

1) Waveform observation



2) Current consumption



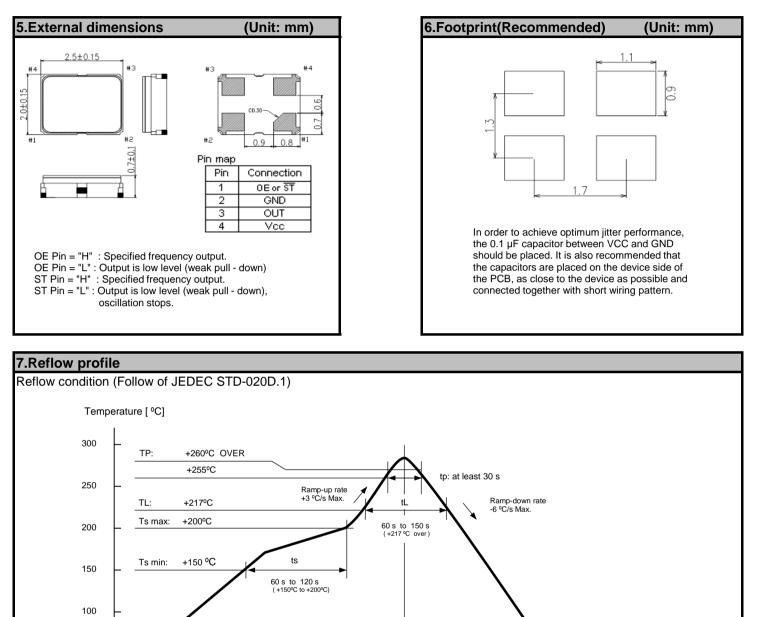
* Current consumption under the disable function should be OE = GND Current consumption under the standby function should be ST = GND.

3) Measurement conditions

- (1) L_CMOS includes probe capacitance.
- (2) Mount a by-pass capacitor (approx. 0.01 to 0.1 $\mu F)$ near the mains terminals of the oscillator (between Vcc and GND)

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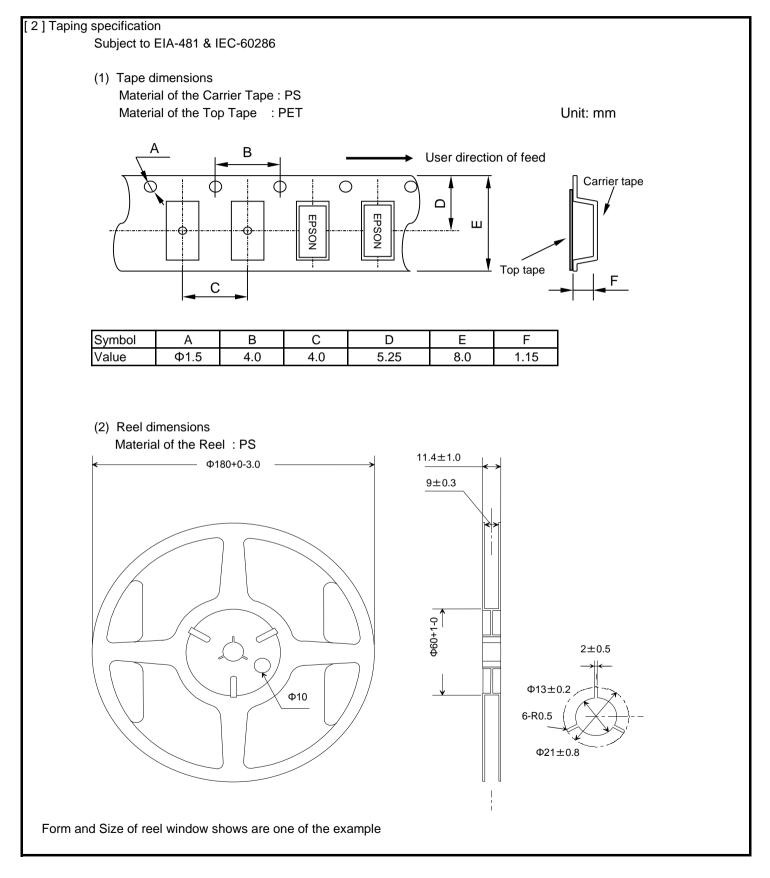
Time [s]



8.Packing information

[1]Product	1]Product number last 2 digits code(xx) description			The recommended code is "00"			
	X1G0056	010065xx					
	Code	Condition	Code	Condition			
	01	Any Q'ty vinyl bag(Tape cut)	14	1000pcs / Reel			
	11	Any Q'ty / Reel	15	2000pcs / Reel			
	12	250pcs / Reel	00	3000pcs / Reel			

Time: +25 °C to Peak



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- / Fire work equipment and security equipment
- / Traffic control equipment
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