Programmable Clock OSC SG-8018CA

Product name SG-8018CA 78.643200 MHz TJHPA Product Number / Ordering code X1G0055710071xx

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. 143 mg

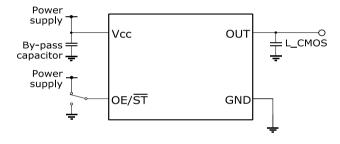
1.Absolute maximum ratings						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Maximum supply voltage	Vcc-GND	-0.3	-	+4.0	V	-
Storage temperature	T_stg	-40	-	+125	٥C	Stored as bare product after unpacking
Input voltage	Vin	GND-0.5	-	Vcc+0.3	V	ST or OE terminal

2.Specifications(characteristic	cs)						
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks	
Output frequency	fO		78.643200		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	-	-	-	μA	-	
Disable current	I_dis	-	-	3.5	mA	Vcc=3.3V Typ., OE=GND	
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	OE Terminal	
	V _{IL}	-	-	30%Vcc	V	OE 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	-	-	1	μs	Measured from the time OE pin crosses 70%Vcc	
Resum time	t_res	-	-	-	ms	-	
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	

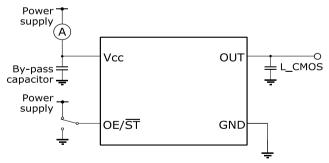
3.Timing chart

4.Test circuit

1) Waveform observation



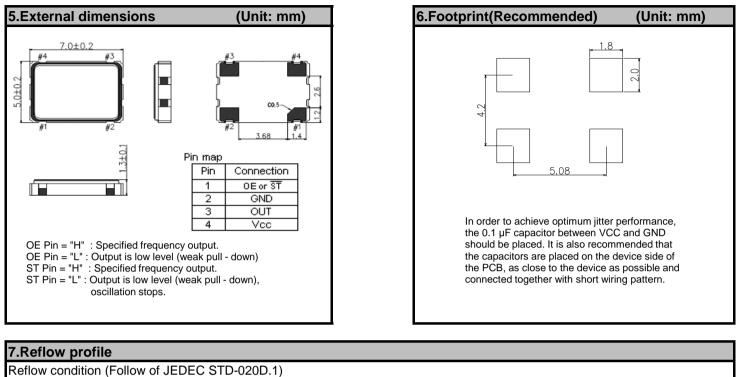
2) Current consumption

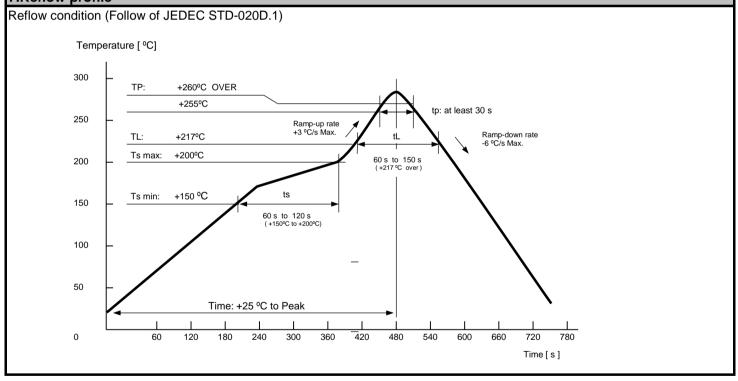


* Current consumption under the disable function should be OE = GND Current consumption under the standby function should be ST = GND.

3) Measurement conditions

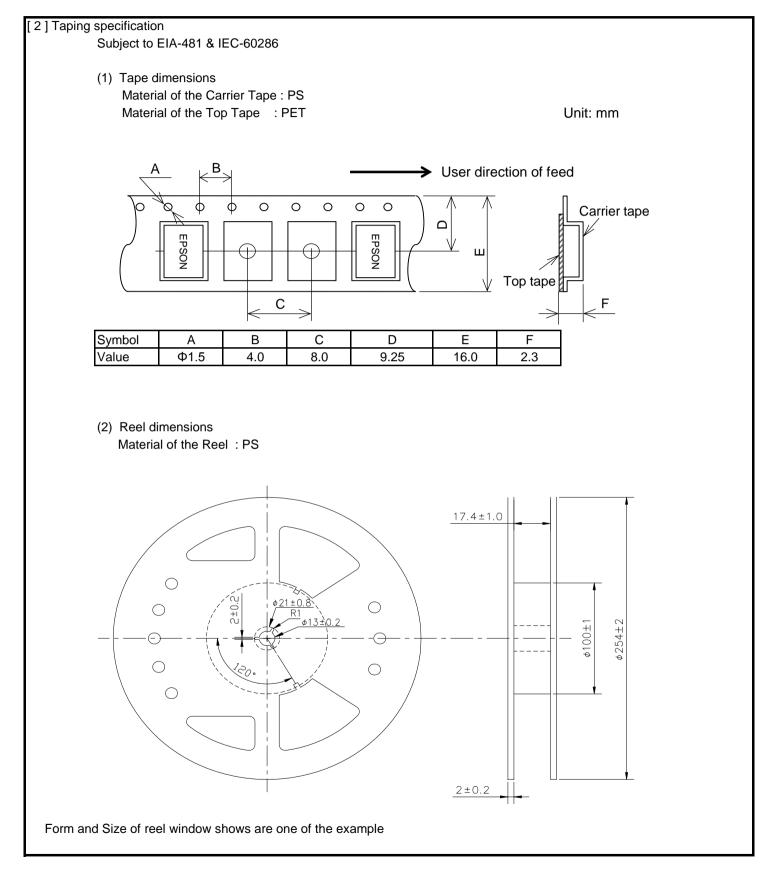
- (1) L_CMOS includes probe capacitance.
- (2) Mount a by-pass capacitor (approx. 0.01 to 0.1 $\mu F)$ near the mains terminals of the oscillator (between Vcc and GND)





8.Packing information

[1]Product number last 2 digits code(xx) description			The recommended code is "00"			
	X1G0055	710071xx				
	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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