VCXO VG-4231CE

Product name VG-4231CE 25.000000 MHz PQE-M Product code / Ordering code Q3614CE000097xx

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

Output waveform CMOS

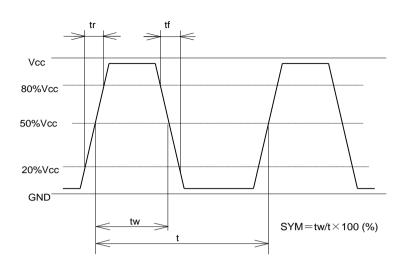
Pb free / Complies with EU RoHS directive

Reference weight Typ.26 mg

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1. Absolute maximum ratin	gs					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Maximum supply voltage	Vcc-GND	-0.3	-	+7	V	-
Storage temperature	T_stg	-40	-	+125	°C	Storage as single product after unpacking.
Input voltage	Vin	-0.3	-	Vcc+0.3	V	Vc traminal

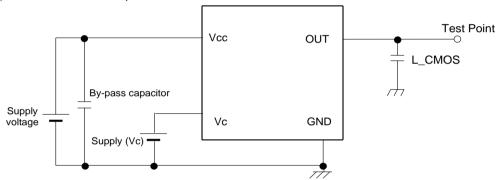
2.Specifications(characteris	tics)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Output frequency	fo		25.0000		MHz	
Supply voltage	Vcc	1.6	1.8	2	V	-
Control voltage	Vc	0	0.9	1.8	V	Vc=0.9V+/-0.9V
Operating temperature	T_use	-40	1	+85	٥C	-
Frequency tolerance	f_tol	-37	1	+37	x10 ⁻⁶	T_use
Current consumption	Icc	-	-	1.2	mA	No load
Frequency control range	f_cont	+/-120	-	-	x10 ⁻⁶	-
Absolute pull range	APR	+/-75	-	-	x10 ⁻⁶	-
Modulation characteristics	BW	15	-	-	kHz	+/-3dB
Input resistance	Rin	5	-	-	МΩ	-
Linearity	F_{LIN}	-	-	+/-10	%	-
Frequency change polarity	-		Positive		-	-
Symmetry	SYM	40	-	60	%	50% Vcc level
Output voltage	V_{OH}	90 % Vcc	-	-	V	$I_{OH} = -3.0 \text{ mA}$
	V_{OL}	-	-	10 % Vcc	V	$I_{OL} = 3.0 \text{ mA}$
Output load condition	L_CMOS	-	1	15	pF	-
Rise time	tr	-	•	6	ns	20%Vcc to 80%Vcc level
Fall time	tf	-	-	6	ns	80%Vcc to 20%Vcc level
Start-up time	t_str	-	•	5	ms	t=0 at 90 %Vcc
Frequency aging	f_aging	-5	-	5	x10 ⁻⁶	25°C, 5years

3. Timing chart

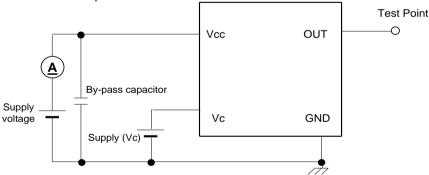


4.Test circuit

1) C-MOS load CL=15 pF

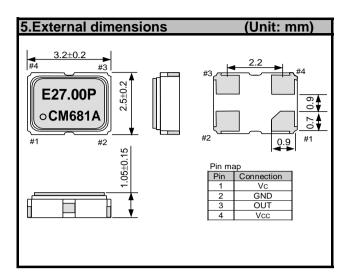


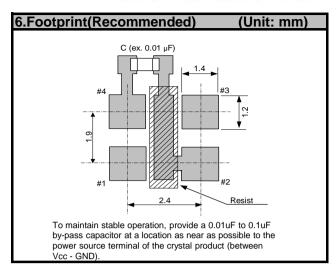
2) Current consumption

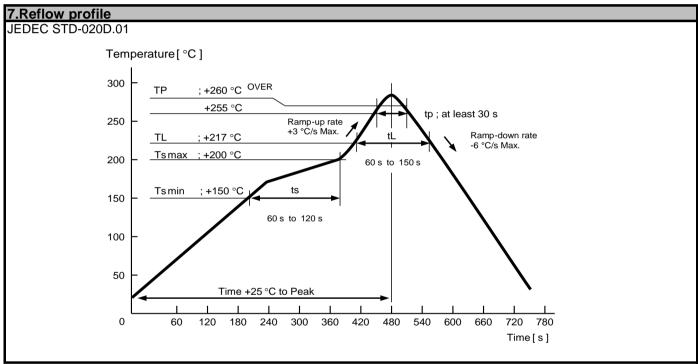


3) Condition

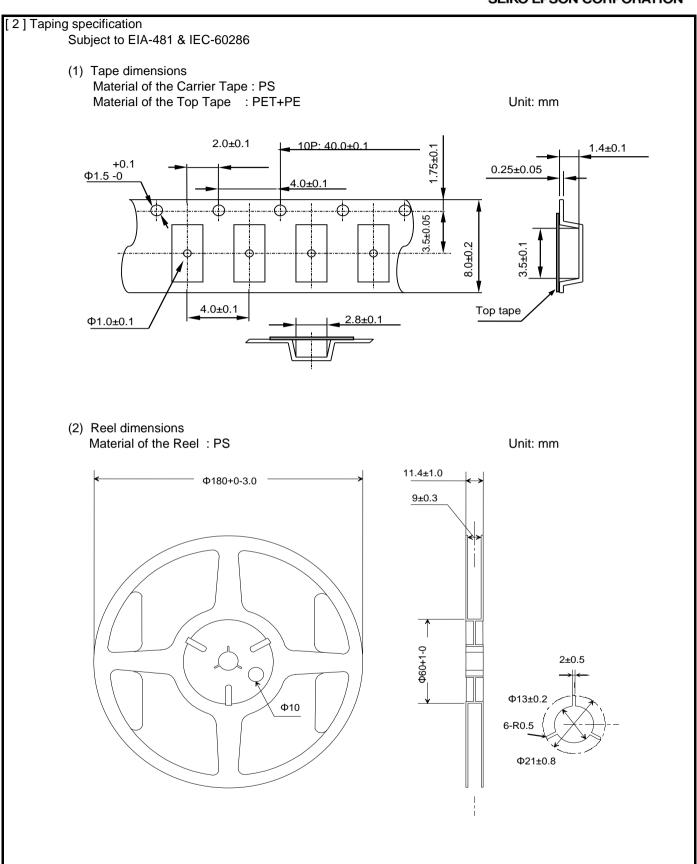
- 1. Oscilloscope
 - Impossible to measure both frequency and wave form at the same time.
 (In case of using oscilloscope's amplifier output, possible to measure both at the same time.)
- 2. L_CMOS includes probe capacitance.
- 3. By-pass capacitor (0.01 μF to 0.1 $\mu F)$ is placed closely between Vcc and GND.
- 4. Use the current meter whose internal impedance value is small.
- 5. Power Supply
 - ·Start up time (0 %Vcc→90 %Vcc) of power source should be more than 150 µs.
- ·Impedance of power supply should be as low as possible.
- 6. One point earth of test cirouit is required.







	g informa	ast 2 digits code(xx) description		The recommended code is "00"
[1 JF10uuc		E000097xx		The recommended code is 00
	Code	Condition	Code	Condition
	00	1000pcs / Reel	12	250pcs / Reel
	01	Any Q'ty vinyl bag(Tape cut)	13	500pcs / Reel
	11	Any Q'ty / Reel	14	1kpcs / Reel



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