VCXO

VG-4231CE

Product nameVG-4231CE25.00000 MHz CSC-MProduct code / Ordering codeQ3614CE000041xx

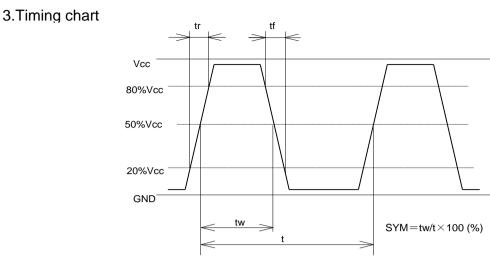
Please refer to the 8.Packing information about xx (last 2 digits)

Output waveform CMOS Pb free / Complies with EU RoHS directive

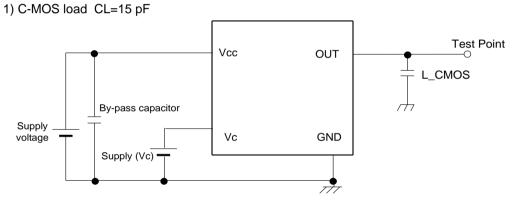
Reference weight Typ.26 mg

1.Absolute maximum ratings	5					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Maximum supply voltage	Vcc-GND	-0.3	-	+7	V	-
Storago tomporaturo	T_stg	-40	-	+125	٥C	Storage as single product after
Storage temperature						unpacking.
Input voltage	Vin	-0.3	-	Vcc+0.3	V	Vc traminal

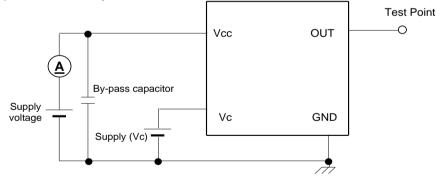
2.Specifications(characteris	tics)					
Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions / Remarks
Output frequency	fo		25.0000		MHz	
Supply voltage	Vcc	3	3.3	3.6	V	-
Control voltage	Vc	0	1.65	3.3	V	Vc=1.65V+/-1.65V
Operating temperature	T_use	-20	-	+70	°C	-
Frequency tolerance	f_tol	-30	0	+30	x10 ⁻⁶	T_use
Current consumption	lcc	-	-	2.5	mA	No load
Frequency control range	f_cont	+/-140	-	-	x10 ⁻⁶	-
Absolute pull range	APR	+/-100	-	-	x10 ⁻⁶	-
Modulation characteristics	BW	15	-	-	kHz	+/-3dB
Input resistance	Rin	5	-	-	MΩ	-
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 mA
	V _{OL}	-	-	10 % Vcc	V	I _{OL} = 3.0 mA
Output load condition	L_CMOS	-	-	15	pF	-
Rise time	tr	-	-	4	ns	20%Vcc to 80%Vcc level
Fall time	tf	-	-	4	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	25ºC, 5years



4.Test circuit



2) Current consumption



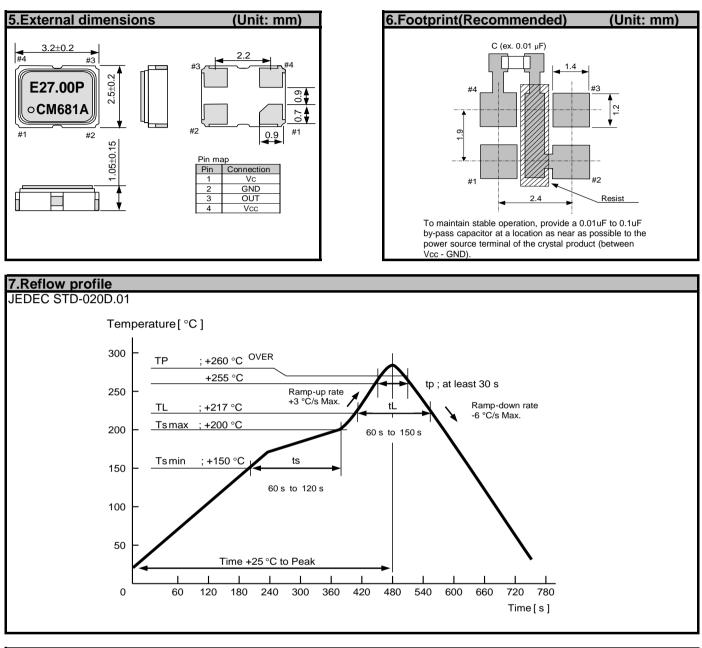
3) Condition

1. Oscilloscope

Impossible to measure both frequency and wave form at the same time.

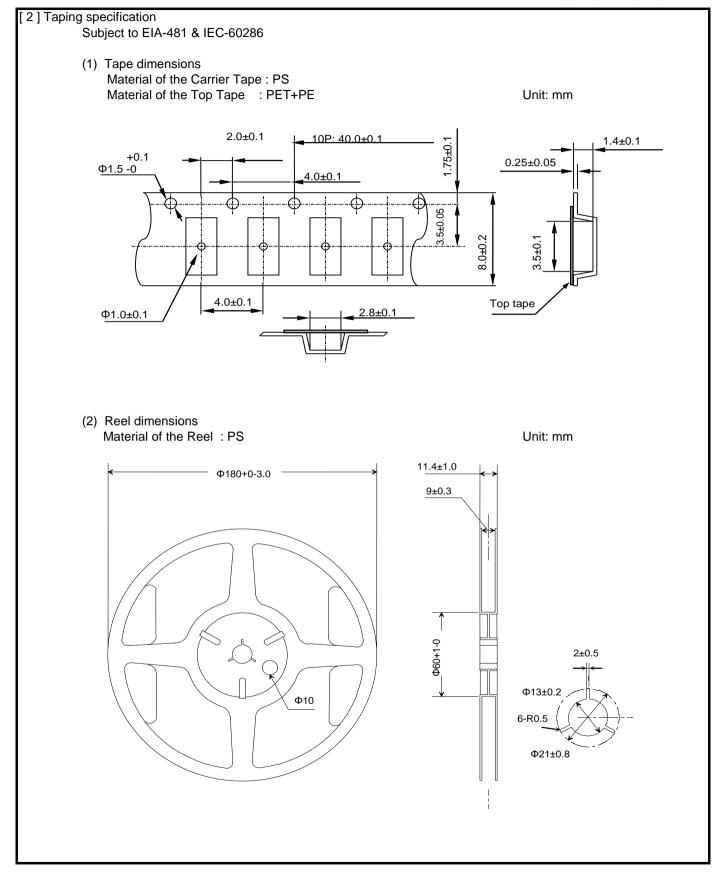
(In case of using oscilloscope's amplifier output, possible to measure both at the same time.)

- 2. L_CMOS includes probe capacitance.
- 3. By-pass capacitor (0.01 µF to 0.1 µF) 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 \rightarrow 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.



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[1]Product number last 2 digits code(xx) description		The recommended code is "00"			
	Q3614CE	E000041xx			
	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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