

Crystal Oscillator Series	Oven Controlled Cryatal Oscillator		
OCXO 5050A(B)	Features	◆ RoHS Compliant ◆ HCMOS/TTL ◆ Sine Wave compatible	

Electrical Specifications

Item		Specifications		
Nominal Frequency Range		200KHz to 160.0MHz		
Frequency Accuracy		±0.01ppm typical（Center control voltage）±0.05ppm Max		
Frequency Stability vs. Temperature		See Table A		
Output and Load Characteristics	Output Waveform	Frequency Range	Out Characteristics	
	Clipping Sine Wave (or Sine Wave)	8.000M~30.000MHz Fund	Load:10KΩ//10PF(50Ω)	
		10.0M~160.0MHz Overtone	Out Level:>1Vp-p(2dBm)	
	TTL	8.000M~30.000MHz Fund	Load:Max.10Low Power Consumption TTL gates	
		10.0M~160.0MHz Overtone	Low Level: <0.4V High Level: >2.4V Symmetry at 1/2 VDC: 45/55% typical Rise & Fall Time: <6ns	
	HCMOS	200K~30.000MHz Fund	Load:Max.10Low Power Consumption TTL gates	
		10.0M~160.0MHz Overtone	Low Level: <0.5V High Level: >4.5V Symmetry at 1/2 VDC: 45/55% typical Rise & Fall Time: <6ns	
Storage Temperature		-40℃ to +100℃		
Supply Voltage		3.3V±10%	5.0V±10%	12V±10%
Frequency Stability vs. Load		±0.0002ppm (Load change±10%)		
Frequency Stability vs. Voltage		±0.0002ppm (Voltage change±5%)		
Supply Consumption		3.6W(Max) when warm-up		
		1.2W(Max) when static		
Warm-up Time		±0.05ppm <3 minutes(AT)		
		±0.005ppm <3 minutes(SC)		
Adjustable Frequency Range		±3ppm (AT)		
		±0.5ppm (SC)		
Contor Voltage Range		0 ~ 5V typical		
Linarity		<±10%		
Slope		Positive		
Phase Noise(10MHz)		1Hz: -80dBc/Hz 1KHz: -145dBc/Hz	10Hz: -110dBc/Hz 10KHz: -150dBc/Hz	100Hz: -130dBc/Hz
Aging		±0.5ppm first year/±3ppm 10 year (AT)		
		±0.1ppm first year/±0.5ppm 10 year (SC)		

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Stability vs. Temperature (Table A)

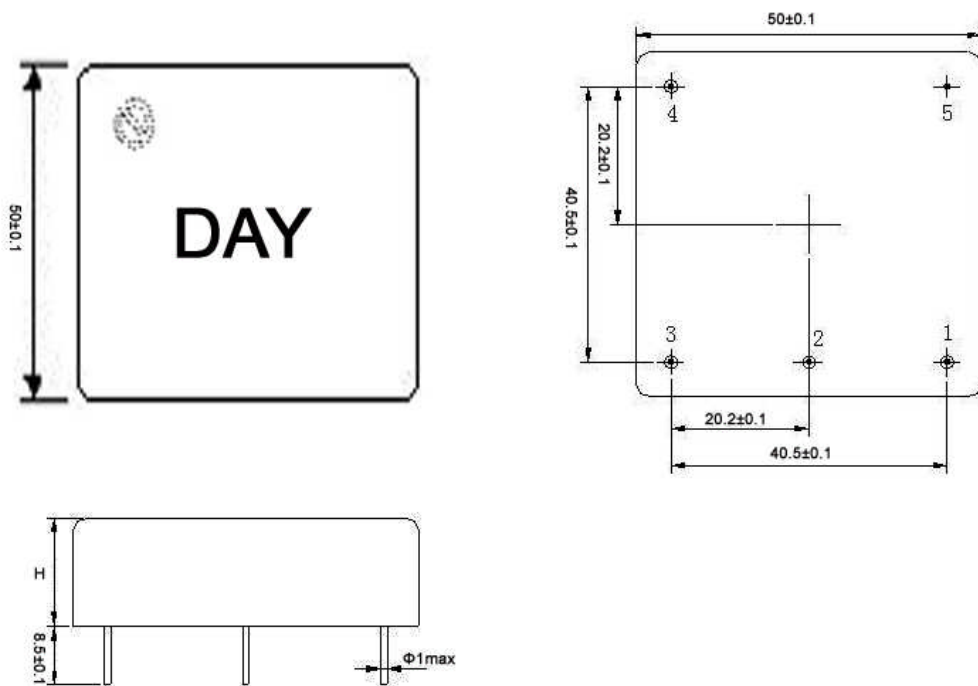
◆ Standard		7	5	0	8	9	Remarks
◇ Please specify		±0.001ppm	±0.005ppm	±0.01ppm	±0.1ppm	±0.5ppm	
C	0℃ to +50℃	◆	◇	◇	◇	◇	
D	-10℃ to +60℃	◆	◇	◇	◇	◇	
E	0℃ to +70℃	◇	◆	◇	◇	◇	
F	-20℃ to +70℃		◇	◆	◇	◇	Standard
G	-30℃ to +70℃		◇	◆	◇	◇	
H	-40℃ to +70℃		◇	◆	◇	◇	

Ordering Information

OC	Type	Pin	XX.XXXX XXX.XXX	M	Output Waveform	Supply Voltage	Stability Vs.Temp.	Operating Temp.	Symmetry At 1/2 V _{bc}	Option
OC:OCXO	50A 50B	C: 5Pins	Center frequency 0.2 to 160.0MHz	M: MHz	S: Sine Wave T: TTL H: HCMOS	A: 3.3V B: 5.0V C: 12V	See Table A	See Table A	1: 45/55% 2: 40/60%	F: Lead Free T: T&R Blank: Bulk

Example: OC50AC10.000MHB0F1B (OCXO, 50*50*25.4mm, 5Pin, 10.000MHz, HCMOS, 5.0V, +/-0.01ppm, -20 to +70deg. 45/55%, Bulk)

Dimensions



Pin	FUNCTION
#1	Contiol Voltage/NC
#2	Reference Voltage/NC
#3	OUTPUT
#4	GND
#5	Power Supply

Type	H
50A	25.4Max
50B	16.0Max

Unit:mm