

Crystal Oscillator Series	Oven Controlled Cryatal Oscillator		
OCXO 3838A(B)	Features	◆RoHS Compliant ◆HCMOS/TTL ◆Sine Wave compatible	

Electrical Specifications

Item		Specifications		
Nominal Frequency Range		200KHz to 160.0MHz		
Frequency Accuracy		±0.05ppm typical（Center control voltage）		
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 10.0M~160.0MHz Overtone	Load:10KΩ//10PF(50Ω) Out Level:>1Vp-p(2dBm)	
	TTL	8.000M~30.000MHz Fund 10.0M~160.0MHz Overtone	Load:Max.10Low Power Consumption TTL gates 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 10.0M~160.0MHz Overtone	Load:Max.10Low Power Consumption TTL gates 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		±0.002ppm (Load change±10%)		
Frequency Stability vs. Voltage		±0.002ppm (Voltage change±5%)		
Supply Consumption		3.6W(Max) when warm-up		
		1.2W(Max) when static		
Warm-up Time		±0.05ppm <3 minutes(AT)		
		±0.01ppm <3 minutes(SC)		
Adjustable Frequency Range		±5ppm (AT)		
		±1ppm (SC)		
Contor Voltage Range		0 ~ 5V typical		
Liniarity		<±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		±0.005ppm	±0.001ppm	±0.01ppm	±0.05ppm	±0.1ppm	
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

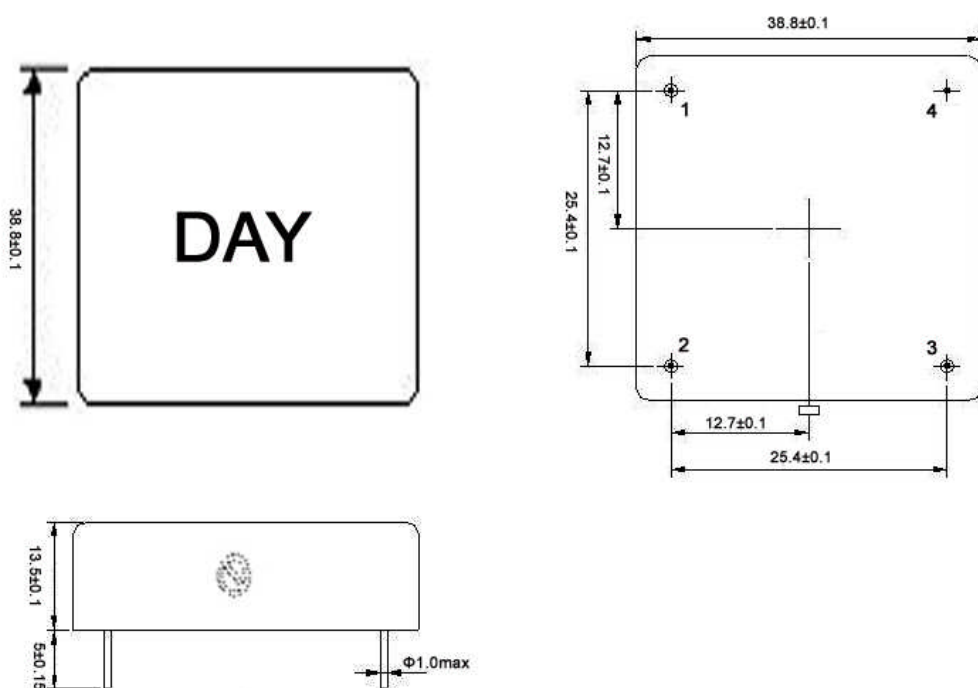
OC	Type	Pin	XX.XXXX XXX.XXX	M	Output Waveform	Supply Voltage	Stability Vs.Temp.	Operating Temp.	Symmetry At 1/2 V _{DC}	Option
OC:OCXO	38A 38B	B: 4Pins	Center frequency 0.2 to 160.0MHz	M: MHz	S:Sine Wave T:TTL H:HCMOS	A:3.3V B:5.0V C:12V	See Table A	See Table A	1:45/55% 2:40/60%	F:Lead Free T:T&R Blank:Bulk

Example:OC38BB10.000MHB0F1B:

(OCXO,38.8*38.8*13.5mm,4Pin,10.000MHz,HCMOS,5.0V,+/-0.01ppm,-20 to +70deg. 45/55%,Bulk)

Dimensions

OCXO 3838B



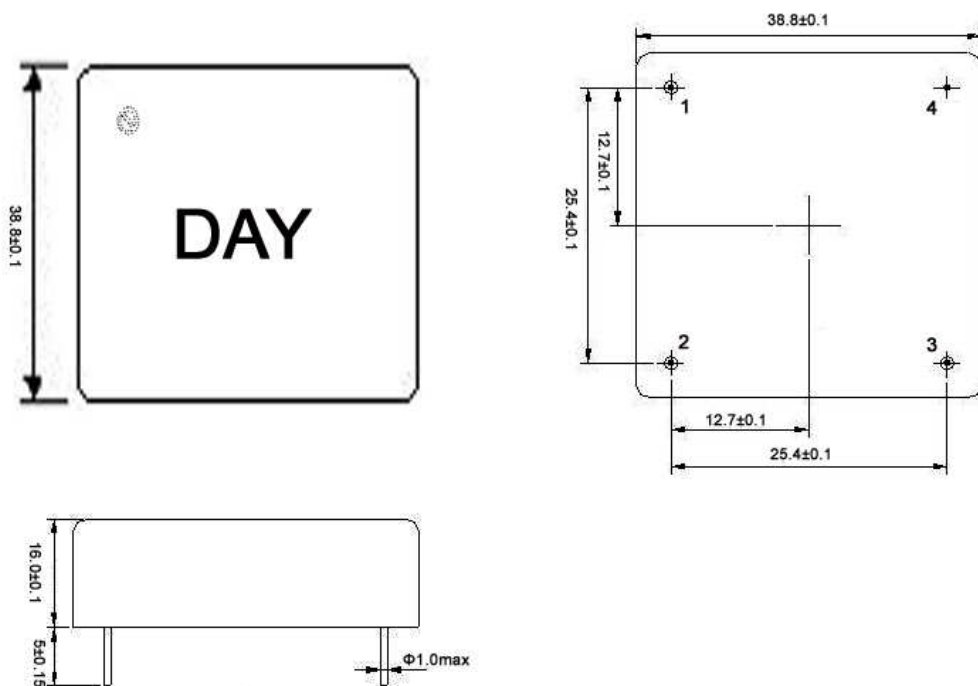
Pin	FUNCTION
#1	Power Supply
#2	Contiol Voltage/NC
#3	GND
#4	OUTPUT

Unit:mm

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Pin	FUNCTION
#1	Power Supply
#2	Control Voltage/NC
#3	GND
#4	OUTPUT

Unit:mm