DAY® 大洋电子

广州晶洋电子科技有限公司

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RoHS 2002/95/EC

Crystal Oscillator Series	**Oven Controlled Cryatal Oscillator**
OCXO 2020	**Features** ◆RoHS Compliant ◆HCMOS/TTL /Sine Wave compatible

Electrical Specifications

Item		Specifications		
Nominal Frequency Range		200KHz to 180.0MHz		
Frequency Accuracy		±0.1ppm 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~180.0MHz Overtone	Load:10KΩ//10PF(50Ω) Out Level:＞1Vp-p(2dBm)	
	TTL	8.000M~30.000MHz Fund 10.0M~180.0MHz 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~180.0MHz 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		±0.5ppm ＜3 minutes(AT)		
		±0.03ppm ＜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 10Hz: -110dBc/Hz 100Hz: -135dBc/Hz 1KHz: -145dBc/Hz 10KHz: -150dBc/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)

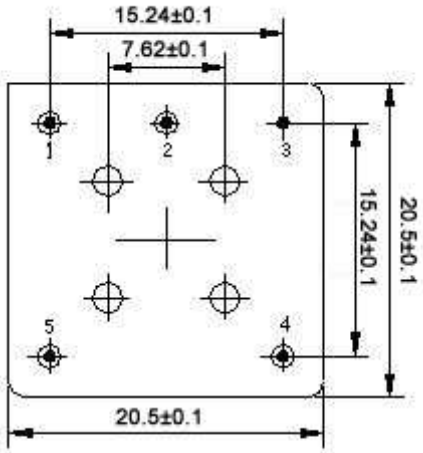
◆ Standard ◇ Please specify		7 ±0.01ppm	5 ±0.03ppm	0 ±0.05ppm	8 ±0.1ppm	9 ±0.5ppm	Remarks
C	0℃ to +50℃	◆	◇	◇	◇	◇	
D	-10℃ to +60℃	◆	◇	◇	◇	◇	
E	0℃ to +70℃	◇	◆	◇	◇	◇	
F	-20℃ to +70℃		◇	◆	◇	◇	Standard
G	-30℃ to +70℃		◇	◆	◇	◇	
H	-40℃ to +70℃		◇	◆	◇	◇	

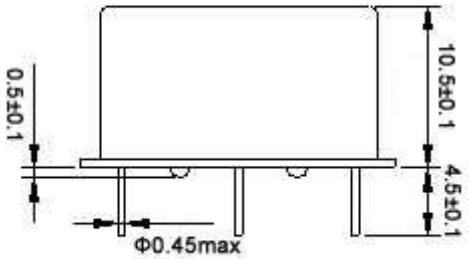
Ordering Information

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	20	C: 5Pins	Center frequency 0.2 to 180.0MHz	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:OC20C10.000MHB0F1B:(OCXO,20.5*20.5*10.5mm,5Pin,10.000MHz,HCMOS,5.0V,+/-0.05ppm,-20 to +70deg. 45/55%,Bulk)

Dimensions





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

Unit:mm