OSCILENT Corporation **Data Sheet**

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BACK

Product Category: Crystal Oscillator

Series Number	Package	Description	Last Modified
330	Metal Dip Full Size	Clock Oscillators	July 01 2005

FEATURES

- HCMOS/TTL logic compatible
- Wide frequency range
- Low power consumption
- 5V or 3.3V optional
- RoHs / Lead Free compliant

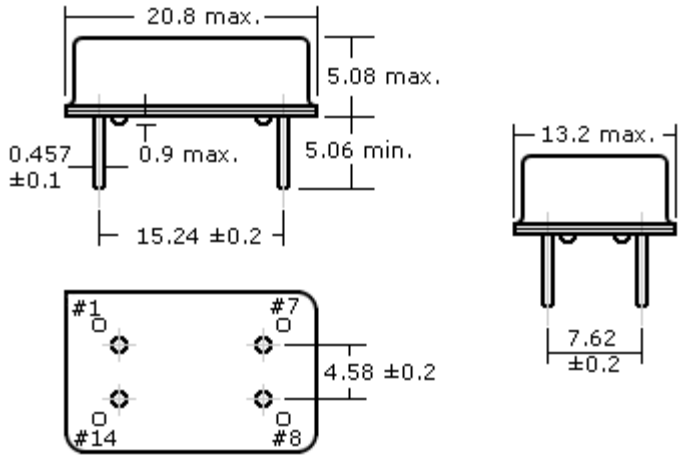


OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	CHARACTERISTICS		UNITS
Output Logic	-	HCMOS / TTL Output		-
Input Voltage (VDD)	-	3.3 ±10%	5.0 ±10%	VDC
Frequency Range (f_O)	-	0.50 ~ 125.000	0.50 ~ 125.000	MHz
Operating Temperature (T_{OPR})	-	0 ~ +70 (Std.) / -40 ~ 85 (Option)		°C
Storage Temperature (T_{STG})	-	-55 ~ +125		°C
Overall Frequency Stability	a + b + c + d	±20, ±25, ±50, ±100 max.		PPM
	(a) Frequency Tolerance	Inclusive of Overall Stability		-
	(b) Temperature Stability	Inclusive of Overall Stability (Operating Temperature)		-
	(c) Input Voltage Stability	Inclusive of Overall Stability (VDD ±5%)		-
	(d) Load Stability	Inclusive of Overall Stability (RL ±5%)		-
Input Current (I_{DD})	-	10 ~ 45 max.	15 ~ 85 max.	mA
Aging	@ 25°C	±5 max.		PPM/Y
Rise Time (T_R) / Fall Time (T_F)	< 66.660 MHz	10 max. (0.4V to 2.4V w/ TTL, Waveform / HCMOS)		nS
Rise Time (T_R) / Fall Time (T_F)	66.660 MHz	4 max. (0.4V to 2.4V w/ TTL, Waveform / HCMOS)		nS
Output Voltage High "1" VOH	TTL Load	2.4 min.		VDC
	HCMOS Load	2.7 min.	VDD-0.5 min.	
Output Voltage Low "0" VOL	TTL Load	0.4 max.		VDC
	HCMOS Load	0.5 max.		
Duty Cycle	-	50 ±10 (Std.) / 50 ±5 (Option)		%
Start-Up Time (T_S)	-	10 max.		ms
Jitter	(One Sigma)	±25 max.		ps

PIN CONNECTIONS	
#1	No Connection or Tri-State Enable High
#7	Case Ground

PACKAGE DIMENSIONS (mm)



#8	Output
#14	Vdd

PART NUMBER GUIDE

Series Number	Frequency	Voltage Supply Option	Frequency Tolerance & Stability (max.)	Operating Temp. (°C)	Duty Cycle	Pin 1 Connection	Gullwing
330	- 2.0 M	- 3	E	N	- T	TS	G
Oscilent Clock Oscillators	Enter your desired frequency e.g. 12.0M = 12.000MHz See table below for standard frequencies.	5 = 5VDC 3 = 3.3VDC	D = ±100 PPM E = ±50 PPM F = ±25 PPM G = ±20 PPM H = ±10 PPM	Blank* = 0~+70 N = -40~+85	Blank*= 50±10% T = 50±5%	NC = No Connnection TS = Tri-State Enable High	Blank* = Std. G = Gullwing

NOTE: - Deviations on all parameters available. Please consult Oscilent for details.
DEFINITIONS: - Click on the characteristic names above for definitions of that particular characteristic.
***STANDARDS:** - "Blank" part number selections indicate standard variables for that particular characteristic.
PACKAGING: - Standard tube packaging, add -TR for Tape/Reel. Click here for tape/reel specifications

STANDARD OSCILLATOR FREQUENCIES - GUIDE ONLY / OTHER FREQUENCIES AVAILABLE

FREQUENCY (1.000 - 9.8304MHz)	FREQUENCY (10.00 - 24.000MHz)	FREQUENCY (24.576 - 80.000MHz)
1.000	10.00	24.576
1.2288	11.0592	25.000
1.8432	12.000	25.175
2.000	12.288	28.322
2.4576	12.800	30.000
3.579545	14.31818	32.000
3.6864	14.7456	32.514
4.000	15.9744	33.000
4.9152	16.000	35.000
5.000	16.257	40.000

5.0688	16.384	48.000
6.000	17.734475	50.000
6.144	18.000	64.000
7.3728	18.432	65.000
8.000	19.6608	66.666
9.216	20.000	80.000
9.8304	24.000	-
NOTE: **Other frequencies available. PLEASE SPECIFY IN PART NUMBER GUIDE**		

Series No.: 330

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