OSCILENT Corporation **Data Sheet**

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BACK

Product Category: Crystal Oscillator

| Series Number | Package | Description | Last Modified |
|---|---|---|---|
| 340 | Metal Dip Full UM-1 | Clock Oscillators | July 01 2005 |

FEATURES

- HCMOS/TTL logic compatible
- Gullwing option
- Low power consumption
- 3.3V or 5.0V optional
- RoHs / Lead Free compliant

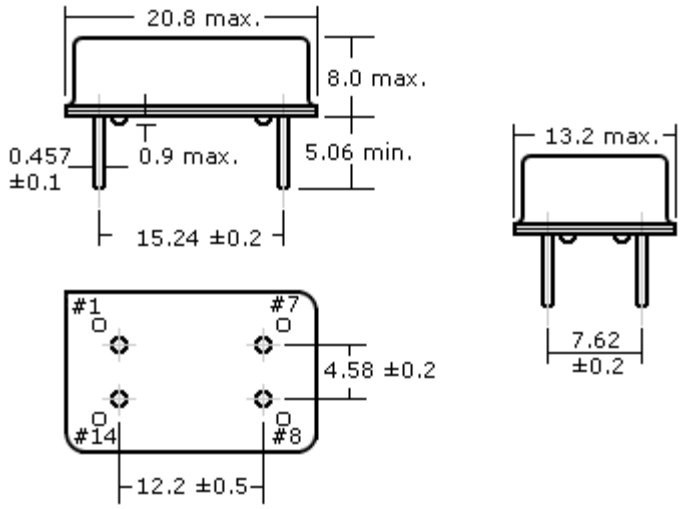


## OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

| PARAMETERS | CONDITIONS | CHARACTERISTICS | | UNITS |
|---|---|---|---|---|
| **Output Logic** | - | HCMOS / TTL Output | | - |
| **Input Voltage (VDD)** | - | 3.3 ±10% | 5.0 ±10% | VDC |
| **Frequency Range ($f_O$)** | - | 1.544 ~ 125.000 | 1.544 ~ 125.000 | MHz |
| **Operating Temperature ($T_{OPR}$)** | - | 0 ~ +70 (Std.) / -40 ~ 85 (Option) | | °C |
| **Storage Temperature ($T_{STG}$)** | - | -55 ~ +125 | | °C |
| **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 | ±1 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 |

## PACKAGE DIMENSIONS (mm)




| | |
|---|---|
| | Enable High |
| #7 | Case Ground |
| #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 |
|---|---|---|---|---|---|---|---|
| 340 | - 1.8432 M | - 5 | E | N | - T | TS | G |
| Oscilent Double Sealed Oscillators | Enter your desired frequency e.g. 12.0M = 12.000MHz See table below for standard frequencies. | 5 = 5VDC<br>3 =3.3VDC | D = ±100 PPM<br>E = ±50 PPM<br>F = ±25 PPM<br>G = ±20 PPM<br>H = ±10 PPM | Blank* = 0~+70<br>N = -40~+85 | Blank*= 50±10%<br>T = 50±5% | NC = No Connnection<br>TS = Tri-State Enable High | Blank* = Std.<br>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 (1.8432 - 9.8304MHz) | FREQUENCY (10.00 - 24.000MHz) | FREQUENCY (24.576 - 80.000MHz) |
|---|---|---|
| - | 10.00 | 24.576 |
| - | 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.:** 340

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