



THE CONNOR-WINFIELD CORP.

2111 COMPREHENSIVE DRIVE.

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## PRODUCT DATA SHEET



# 5.0V HCMOS/TTL COMPATIBLE 14 PIN DIP CRYSTAL CLOCK OSCILLATOR

## ABSOLUTE MAXIMUM RATINGS

TABLE 1.0

| PARAMETER           | UNITS | MINIMUM | NOMINAL | MAXIMUM | UNITS | NOTE |
|---------------------|-------|---------|---------|---------|-------|------|
| Storage Temperature |       | -55     | -       | 125     | °C    |      |
| Supply Voltage      | (Vcc) | -0.5    | -       | 7.0     | Vdc   |      |

## MODEL SPECIFICATIONS:

## MODEL S13R8

TABLE 2.0

|                             |      |     |   |    |     |   |
|-----------------------------|------|-----|---|----|-----|---|
| Frequency Range             | (Fo) | 1.0 | - | 80 | MHz |   |
| Frequency Tolerance:        |      | -25 | - | 25 | ppm | 1 |
| Operating Temperature Range |      | 0   | - | 70 | °C  |   |

## MODEL S14R8

|                             |      |     |   |    |     |   |
|-----------------------------|------|-----|---|----|-----|---|
| Frequency Range             | (Fo) | 1.0 | - | 80 | MHz |   |
| Frequency Tolerance:        |      | -50 | - | 50 | ppm | 1 |
| Operating Temperature Range |      | 0   | - | 70 | °C  |   |

## MODEL S15R8

|                             |      |      |   |     |     |   |
|-----------------------------|------|------|---|-----|-----|---|
| Frequency Range             | (Fo) | 1.0  | - | 80  | MHz |   |
| Frequency Tolerance:        |      | -100 | - | 100 | ppm | 1 |
| Operating Temperature Range |      | 0    | - | 70  | °C  |   |

## MODEL S16R8

|                             |      |      |   |     |     |   |
|-----------------------------|------|------|---|-----|-----|---|
| Frequency Range             | (Fo) | 1.0  | - | 80  | MHz |   |
| Frequency Tolerance:        |      | -100 | - | 100 | ppm | 1 |
| Operating Temperature Range |      | -40  | - | 85  | °C  |   |

## OPERATING SPECIFICATIONS

TABLE 3.0

| PARAMETER      |                   | MINIMUM | NOMINAL | MAXIMUM | UNITS | NOTE |
|----------------|-------------------|---------|---------|---------|-------|------|
| Supply Voltage | (Vdd)             | 4.5     | 5.0     | 5.5     | Vdc   |      |
| Supply Current | 1.0 to 24.999 MHz | (Icc)   | -       | 25      | mA    |      |
|                | 25 to 49.999 MHz  | (Icc)   | -       | 45      | mA    |      |
|                | 50 to 80.000 MHz  | (Icc)   | -       | 60      | mA    |      |

## TTL OUTPUT CHARACTERISTICS

TABLE 4.0

| PARAMETER                               |        | MINIMUM | NOMINAL | MAXIMUM | UNITS     | NOTE |
|-----------------------------------------|--------|---------|---------|---------|-----------|------|
| LOAD                                    |        | -       | -       | 10      | TTL Loads |      |
| Voltage                                 | (High) | (Voh)   | 2.4     | -       | Vdc       |      |
|                                         | (Low)  | (Vol)   | -       | 0.5     | Vdc       |      |
| Current                                 | (High) | (Ioh)   | -16     | -       | mA        |      |
|                                         | (Low)  | (Iol)   | -       | 16      | mA        |      |
| Duty Cycle measured at 50% of Vcc       |        | 45      | 50      | 55      | %         |      |
| Rise / Fall Time measured at 10% to 90% |        | -       | 4       | 5       | nS        |      |
| Start-Up Time                           |        | -       | 3       | 10      | mS        |      |
| Jitter (BW=10Hz to 20MHz)               |        | -       | -       | 5       | ps rms    |      |
| Jitter (BW=12kHz to 20MHz)              |        | -       | -       | 1       | ps rms    |      |

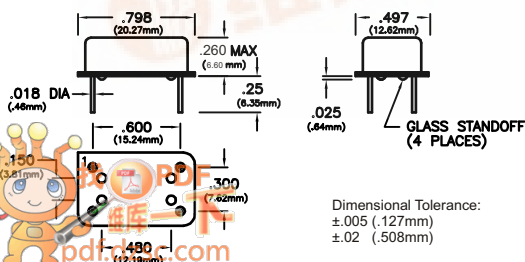
## PACKAGE CHARACTERISTICS

TABLE 5.0

|         |                                   |
|---------|-----------------------------------|
| Package | Hermetically sealed metal package |
|---------|-----------------------------------|

Note:

- 1) Inclusive of calibration @ 25°C, frequency vs. temperature stability, supply voltage change, load change, shock and vibration, 10 years aging.



Dimensional Tolerance:  
±.005 (.127mm)  
±.02 (.508mm)

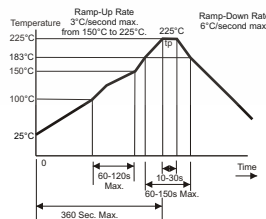


TABLE 6.0

| Pad | Connection |
|-----|------------|
| 1   | N/C        |
| 7   | Ground     |
| 8   | Output     |
| 14  | Vcc        |

## ORDERING INFORMATION

S15R8 - 25.0MHz

CLOCK  
SERIESCENTER  
FREQUENCY

Specifications subject to change without notice.

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