

- \* LVDS Output
- \* Industry Standard Outline

- Applications**
- \* Serial Communications
  - \* Routers
  - \* Switches
  - \* WAN Interfaces
  - \* Test Equipment



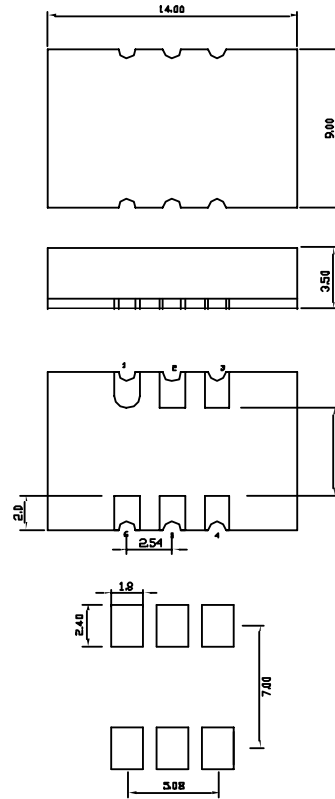
**Part Numbering Example: CTVL Z - A5 B3 - 222.5792 TS**

|               |                                   |                                           |                  |                  |                  |
|---------------|-----------------------------------|-------------------------------------------|------------------|------------------|------------------|
| <b>CTVL</b>   | <b>Z</b>                          | <b>A5</b>                                 | <b>B3</b>        | <b>222.5792</b>  | <b>TS</b>        |
| <b>SERIES</b> | <b>PACKAGING OPTIONS</b>          | <b>OPERATING TEMP.</b>                    | <b>STABILITY</b> | <b>FREQUENCY</b> | <b>TRI-STATE</b> |
| CTVL          | Blank = Bulk<br>Z = Tape and Reel | Blank = 0°C ~ +70°C<br>A5 = -20°C ~ +70°C | B3 = ±2.5 ppm    |                  | TS = Tri-State   |

| Specifications:                           | Min                             | Typ   | Max       | Unit   |
|-------------------------------------------|---------------------------------|-------|-----------|--------|
| Frequency Range:                          | 38                              |       | 640       | MHz    |
| Stability:                                | - 2.5                           |       | + 2.5     | ppm    |
| Supply Voltage:                           | 3.135                           | 3.3   | 3.465     | V      |
| Frequency Tuning Range:                   |                                 | +/- 8 |           | ppm    |
| External Control Voltage:                 | 0.35                            |       | 3.0       | V      |
| Operating Temperature:                    | -30                             |       | + 70      | °C     |
| Storage Temperature:                      | -40                             |       | + 85      | °C     |
| Duty Cycle:                               | 45                              |       | 55        | %      |
| Start-Up Time:                            |                                 | 3     | 10        | mS     |
| Aging: (ppm/1st Year)<br>Ta=25C, Vdd=3.3V |                                 |       | 1         | ppm    |
| Supply Current:                           |                                 |       | 100       | mA     |
| Short Circuit Current:                    |                                 | ± 50  |           | mA     |
| RMS Period Jitter:                        |                                 | 5     |           | pS     |
| RMS Integrated Jitter:<br>12kHz to 20MHz  |                                 | 0.7   |           | pS     |
| Phase Noise @ 10kHz:                      |                                 |       | -120      | dBc/Hz |
| Output Voltage:<br>Voh<br>Vol             | Vdd - 0.9                       |       | Vdd - 1.6 | V<br>V |
| Output Differential Voltage:              | 247                             | 355   | 454       | mV     |
| Rise/Fall Time:                           |                                 | 0.4   | 0.8       | nS     |
| Output Level:                             | LVDS                            |       |           |        |
| Packaging:                                | Tape and Reel 1000 pcs per Reel |       |           |        |

**CTVL**

Dimensions are in mm



- PIN Function**
- 1 VCONTROL
  - 2 ENABLE
  - 3 Ground
  - 4 LVDS +
  - 5 LVDS -
  - 6 Vdd

**LVDS Levels Test Circuit**

