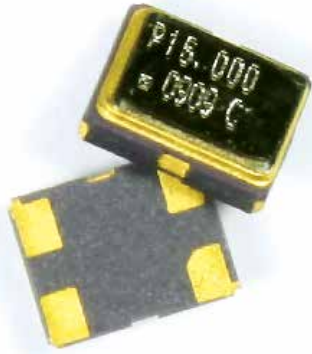


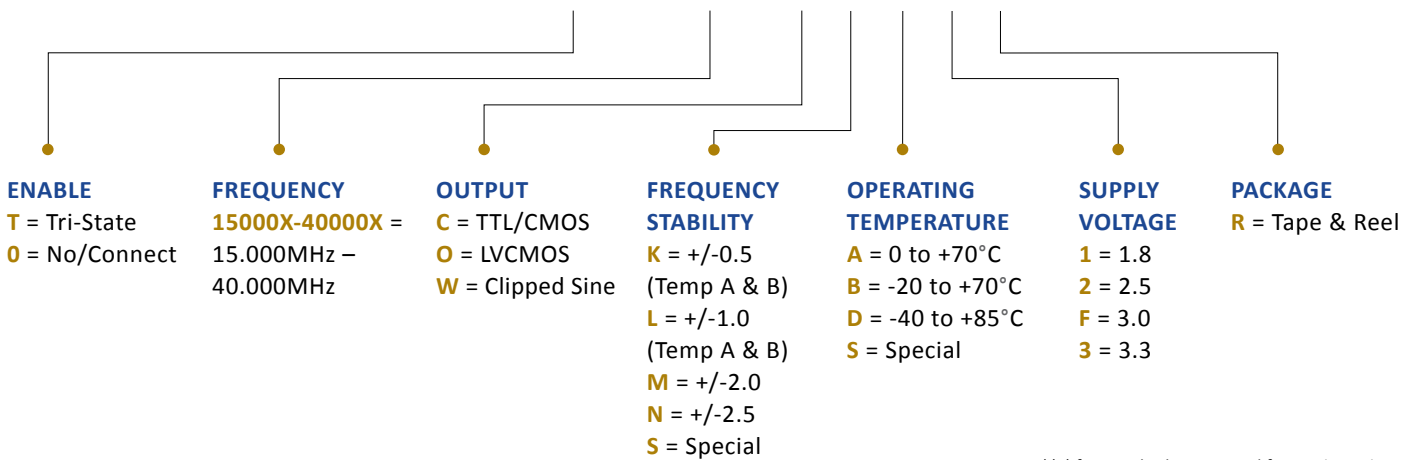
# TC02-Series Specifications



## 2.50L x 2.00W x 1.00H (mm)

PDI *TC02-Series* Temperature Compensated Crystal Oscillator (TCXO) ensures a precise frequency under demanding circumstances. With ultra-low phase noise, low jitter, and excellent performance in high vibration environments this TCXO available, in both standard and custom frequencies. PDI provides fast sampling for your proto-typing needs, mass production capability, and competitive pricing.

ex) **TC-T-2-25000X-C-N-D-2-R-X\***



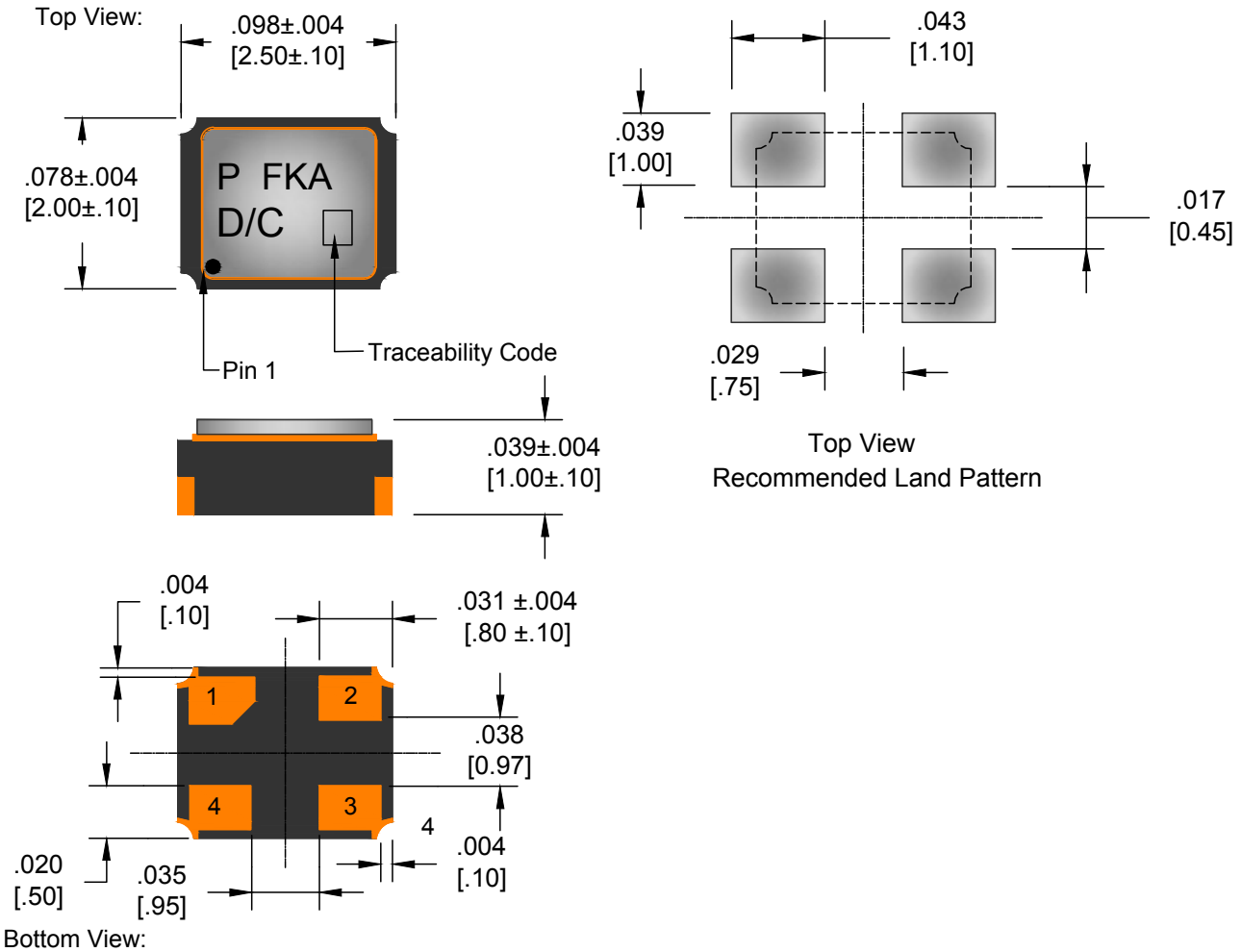
\*(X) for standard or assigned for customization.


| Parameter                            |   | Supply Voltage Range (±5%) | Units  |
|--------------------------------------|---|----------------------------|--------|
|                                      |   | 1.8 to 3.3                 | V      |
| Frequency Range                      |   | 15.000000 to 40.000000     | MHz    |
| Frequency Stability                  | vs Temperature (Max.)                               | ±0.5 to ±2.5*1             | ppm    |
|                                      | vs Supply Voltage (Max. for a 5% change)            | ±0.2                       |        |
|                                      | vs Load (Max. for a 10% change)                     | ±0.2                       |        |
|                                      | vs Aging (Max. per year)                            | ±1                         |        |
|                                      | Calibration (@ +25°C)<br>1 Hour After Reflow (Max.) | ±2                         |        |
| Temperature Range                    | Operating   | Per Option                 | °C     |
|                                      | Storage   | -55 to +125                |        |
| Supply Current (Maximum)             | 15.00000 to 25.999999 MHz                           | 2.0                        | mA     |
|                                      | 26.000000 to 40.999999 MHz                          | 2.5                        |        |
| Waveform                             |   | Clipped Sinewave           |        |
| Output (Minimum)                     | Peak to Peak  | 0.8                        | V      |
| Load (±10%)                          |   | 10 kΩ//10pF                |        |
| Start Up Time (Maximum)              |   | 2                          | ms     |
| Phase Noise (Typical) (For 19.2 MHz) | @ 100 Hz  | -115                       | dBc/Hz |
|                                      | @ 1 kHz   | -135                       |        |
|                                      | @ 10 kHz  | -148                       |        |

# TC02-Series 2.50 x 2.00 x 1.00 (mm)

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| PIN | CONNECTION     |
|-----|----------------|
| 1   | Tri-State      |
|     | No Connect     |
| 2   | Ground/Case    |
| 3   | Output         |
| 4   | Supply Voltage |



|  |  |  |
|--|--|--|
|  <p><b>GREEN PRODUCT</b><br/>RoHS Compliant<br/>EU 2002/95/EC<br/>Precision Devices, Inc.</p> | <ul style="list-style-type: none"> <li>*1 Dependant on Operating Temperature Range.</li> <li>*2 Over voltage control range applied to Pin 1.</li> <li>*3 Increasing control voltage increases output frequency.</li> </ul> | <p><b>NOTES:</b></p> <p>Terminals are Au.<br/>Other options are available, please consult factory.<br/>All product is supplied RoHS and REACH compliant.<br/>Product can be supplied on Tape and Reel, on reels of 1,000 units.<br/>Not all Frequency/Temperature combinations are available.<br/>Decimal XXX = <math>\pm .008</math>, XX = <math>\pm .020</math> Metric [XXX = <math>\pm .20</math>], [XX = <math>\pm .50</math>]<br/>Specifications subject to change without notice, last updated 4/1/13.</p> |
|--|--|--|

