### Features
- Supports 10 MHz to 50 MHz
- Stratum 3 specification compliant
- Excellent temperature stability: ±0.2 ppm (-40 to 85 °C)
- Excellent aging characteristic: ±3.0 ppm / 20 yrs.

### Application
- Base station, Network equipment
- GPS
- Wireless devices for business use
- Other consumer applications

### Standard specification

<table>
<thead>
<tr>
<th>Item</th>
<th>CMOS</th>
<th>Clipped sine wave</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VC-TCXO</td>
<td>TCXO</td>
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<td></td>
<td>XTCLH * C</td>
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<td>XTCLH * T</td>
<td>XNCLH * T</td>
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</tbody>
</table>

#### Frequency
- 10 MHz ~ 50 MHz
- 10, 12.8, 16.384, 19.2, 20, 24.576, 25, 26, 30.72, 38.4, 40, 49.152, 50

#### Supply voltage
- 3.0 ± 5 %, 3.3 ± 5 % (Supply Voltage Range : 2.8 ~ 5.0 V)

#### Operating Temperature
- -40 ~ +85 °C

#### Load Capacitance
- 15 pF / 10 kΩ // 10 pF

#### Frequency Tolerance
- ±0.5 ppm max. @ +25±2 °C

#### Frequency stability over temperature
- ±0.28 ppm max. @ -40 ~ +85 °C
- ±0.20 ppm max.

#### Load sensitivity
- ±0.10 ppm max. @ Load ±10 %
- ±0.05 ppm max.

#### Supply voltage stability
- ±0.20 ppm max. @ Supply Voltage ±5 %
- ±0.05 ppm max.

#### Aging
- ±0.5 ppm/year max. @ +25±2 °C
- ±3.0 ppm/year max.

#### Current consumption
- ~ 6.0 mA max.
- ~ 3.4 mA max.

#### Voltage Control Range
- Vc = +1.5 V ± 1.0 V Positive

#### Voltage Control Range
- ±3.0 ppm min. ~ ±6.0 ppm max.
- ±3.0 ppm min. ~ ±6.0 ppm max.

#### Free Run
- ±4.6 ppm max. (Stratum3 grade)

- Enable/ Disable function is selectable.
- If you have any questions or need more information, please do not hesitate to contact to us.

Product specifications are as of August 2018. They are subject to change without notice.

Murata Manufacturing Co., Ltd.

No. VPPT-1810-0007-D
Dimensions

( Unit : mm )

XTCLH/ XNCLH

Pin Connection
(1): \( V_c / GND \)
(2): NC
(3): NC
(4): GND
(5): Clipped Sine / CMOS OUTPUT
(6): NC
(7): NC
(8): Vcc

Marking (in mm)