

OH Type Crystal Oscillator

FEATURE

RoHS Compliant Optional

1. Typical 12.8X12.8X5.0 mm standard package.
2. Compatible with 8-Pin dual in line.
3. CMOS circuit TTL/CMOS compatible.
4. Hermetically sealed metal case and high reliability.
5. Case ground for minimizing RF radiation.
6. Tight symmetry (45 to 55%) available.
7. Packing: 40 pcs per Tube.



ORDERING INFORMATION

| O | H | T | T | D | C | J | - | N | F | - | ? |
|----|--------------|---|------------------------------|---|--|---|------|------------|--|------|------------|
| XO | Package (mm) | Supply Voltage(V) & Pin Form | Tri-State Function | Freq. Stability (ppm) | Temp. Range (°C) | Output Logic and Symmetry | Dash | Appearance | Lead Free | Dash | Freq.(MHz) |
| | 12.8x12.8 | T: 5, Through Hole G: 5, Gull Wing E: 2.8~3.3 Through Hole F: 2.8~3.3 Gull Wing J: 2.5 K: 1.8 | T: Fixed-Freq with Tri-State | C: ± 20 D: ± 25 G: ± 50 H: ± 100 | C: -20~+70 D: -30~+80 L: -40~+85 | 50±5% 50±10% TTL A B TTL 50pF E R CMOS 15pF J K CMOS 50pF F G | | N: Normal | F: RoHS Compliant L: Not RoHS Compliant | | xx.xxxxxx |

Ordering Example: OHTTDCJ-NF-14.318180 MHz

XO H-TYPE; V_{DD}: 5V; Fixed-Freq. with Tri-State; Freq. Stability: ±25ppm; Temp. Range: -20°C to +70°C; Load: CMOS 15pF, Symmetry: 50±5%; Normal Appearance; RoHS Compliant; Freq. 14.318180MHz.

ELECTRICAL SPECIFICATION

| Parameter | 5V±10% | 3.3V±10% |
|---|-------------------------------|----------|
| Frequency Range (MHz) | 1 ~ 110 | 1 ~ 156 |
| Operating Temp. Range (°C) | Refer to Ordering Information | |
| Frequency Stability * | Refer to Ordering Information | |
| Supply Current (mA) Max. | | |
| 1.0MHz ≤ F _o < 20MHz | 15 | 10 |
| 20MHz ≤ F _o < 50MHz | 40 | 30 |
| 50MHz ≤ F _o < 70MHz | 50 | 40 |
| Transition Time ⁺ : Rise/Fall Time (ns) Max. | | |
| 1.0MHz ≤ F _o < 20MHz | 8 | 10 |
| 20MHz ≤ F _o < 50MHz | 5 | 6 |
| 50MHz ≤ F _o < 156MHz | 4 | 5 |
| Storage Temp. Range (°C) | -55 ~ +125 | |

FREQ. STABILITY vs. TEMP. RANGE

| Temp.(°C) | ppm | D:±25 | G:±50 | H:±100 |
|-----------|-----------|-------|-------|--------|
| C | -20 ~ +70 | ○ | ○ | ○ |
| D | -30 ~ +80 | ○ | ○ | ○ |
| L | -40 ~ +85 | ○ | ○ | ○ |

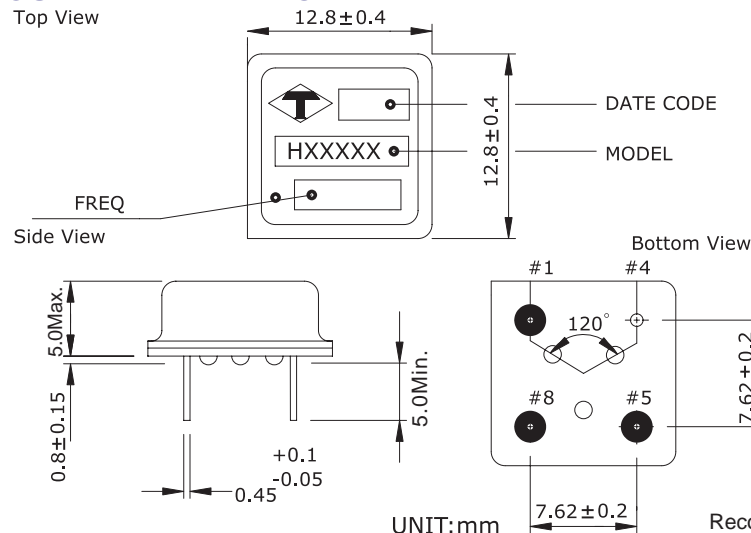
○: Standard

←

* Inclusive of calibration @ 25°C, operating temperature range, input voltage variation, load variation, aging, shock, and vibration.

+ Transition times are measured between 10% and 90% of V_{DD}, with a output load of 15pF.

OUTLINE DRAWING



| Pin | MODEL | HXFXXX | HXTXXX |
|-----|-------|-----------------|---------|
| #1 | | NC | 3-State |
| #4 | | CASE GND | |
| #5 | | Output | |
| #8 | | V _{DD} | |

Recommended soldering pattern