

Temperature Compensated Crystal Oscillator TCXO



CXOH20 Model

Through Hole, 5.0V, HCMOS



Applications

- Test Equipment
- RF Sources

Frequency Options

- 10.000 MHz
- 16.000 MHz
- 20.000 MHz
- 25.000 MHz

Features

- High Stability
- Excellent Phase Noise
- AT-Cut Crystal
- Mechanical Trimmer

| FREQUENCY STABILITIES | MIN | TYP | MAX | UNITS | CONDITIONS |
|-----------------------------|------|-----|------|-------|------------------------------------|
| Frequency Overall Stability | -1.0 | | +1.0 | PPM | -10° to +60°C (reference @25°C) |
| Frequency vs Input Voltage | -0.3 | | +0.3 | PPM | for ±5.0% change in Vcc |
| Frequency vs Load | -0.3 | | +0.3 | PPM | |
| Frequency vs 1 year aging | -1.0 | | +1.0 | PPM | |
| Frequency adjustment range | ±3.0 | | | PPM | mechanical trim |

| Supply Voltage / Current | MIN | TYP | MAX | UNITS | CONDITIONS |
|--------------------------|------|------|------|-------|------------|
| Supply Voltage | +4.5 | +5.0 | +5.5 | VDC | |
| Supply Current | | | 20 | mA | |

| HCMOS OUTPUT | MIN | TYP | MAX | UNITS | CONDITIONS |
|--------------------|-----|-----|-----|-------|------------|
| Signal Level (Voh) | 4.5 | | | VDC | |
| Signal Level (Vol) | | | 0.5 | VDC | |
| Duty Cycle | 40 | | 60 | % | @ Vcc/2 |
| Load | | 15 | | pF | |

PN: CXOH20-BP-10.000

Rev. E

Date: 19-Jan-2017

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| OUTPUT CHARACTERISTICS | MIN | TYP | MAX | UNITS | CONDITIONS |
|------------------------|-----|------|-----|--------|----------------|
| Phase Noise | | -75 | | dBc/Hz | @10Hz Offset |
| | | -105 | | | @100Hz Offset |
| | | -125 | | | @1KHz Offset |
| | | -135 | | | @10KHz Offset |
| | | -140 | | | @100KHz Offset |
| Start-Up Time | | | 10 | msec | |
| Rise Time, Fall Time | | | 5 | nsec | |

| ABSOLUTE MAXIMUM RATING | MIN | TYP | MAX | UNITS | CONDITIONS |
|-------------------------|-----|-----|-----|-------|------------|
| Supply Voltage | | | 7 | VDC | |
| Storage Temperature | -45 | | +90 | °C | |
| Load | | | 50 | pF | |

| ENVIRONMENTAL CONDITIONS | |
|--------------------------|---|
| SHOCK | IEC 68-2-27 (Test Ea) 30G, 10mSec, Half Sine |
| VIBRATION | IEC 68-2-6 (Test Fc) 0.35mm, 10G, 5-500Hz, 6 cycles/axis |
| THERMAL SHOCK | IEC 68-2-14 (Test Na) 30 min. in each extreme temperature |
| HUMIDITY | MIL-STD-202 method 106D |

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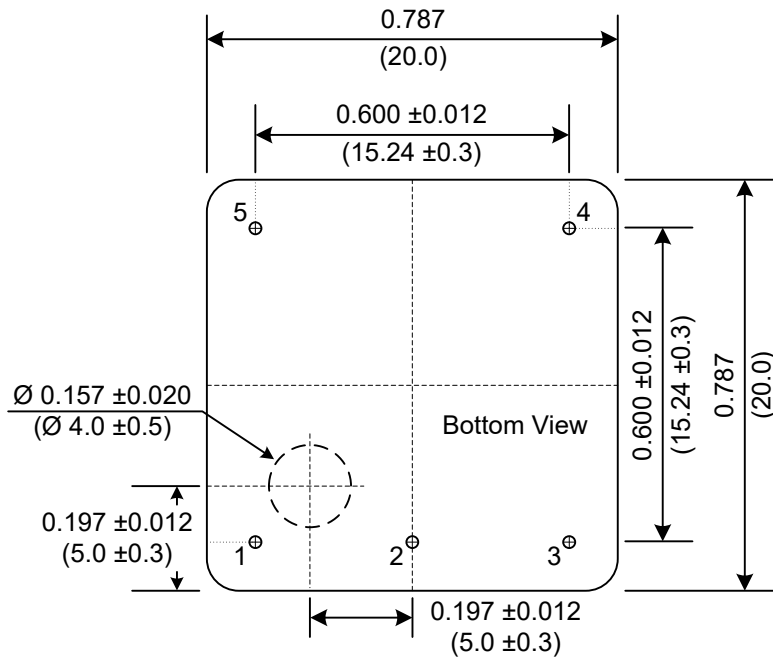
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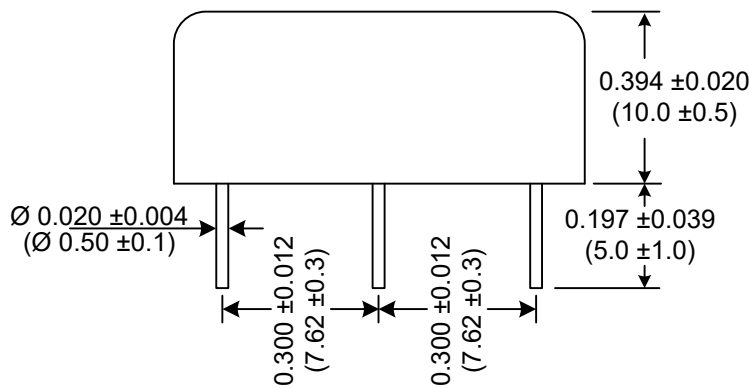
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Specifications subject to change without notice.

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| Pin | Function |
|-----|----------------|
| 1 | NC |
| 2 | RF Output |
| 3 | Supply Voltage |
| 4 | Case Ground |
| 5 | Case Ground |



Dimensions inches (mm)
All dimensions are maximum unless otherwise specified

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