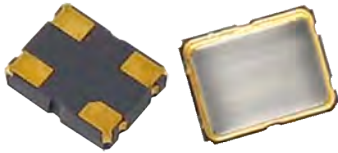


# High Temperature Crystal Oscillator 2.5 x 2.0mm

1.8V/2.5V/3.3V CMOS XO

**HX251**



2.5 x 2.0mm Ceramic SMD

## Product Features

- Support high temperature up to 125°C
- Low phase jitter - < 1ps RMS max.
- Wide frequency range - 1.75 ~ 161MHz
- AEC-Q200 (Grade 1) compliant
- Pb-free & RoHS compliant

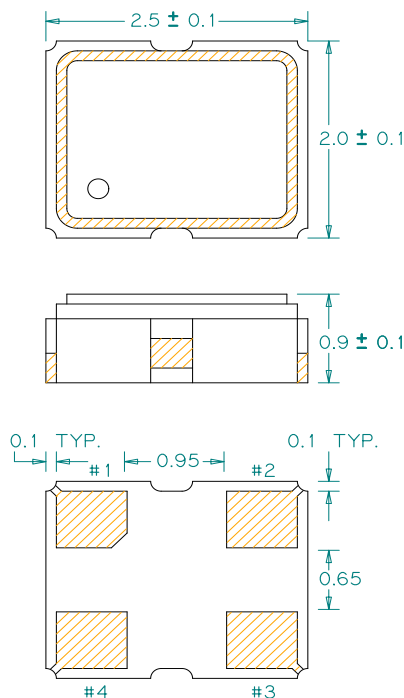
## Product Description

The HX251 XO series is a high performance CMOS crystal oscillator family that supports high temperature with very low jitter performance. It supports various options including wider frequency range, 1.8V/2.5V/3.3V voltage, and various stabilities over wide temperature range. It is designed to meet the clock source specifications for communication systems, Industrial applications and other high performance equipment.

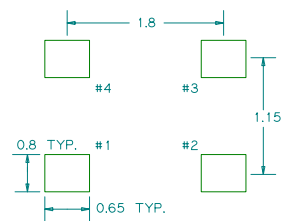
## Applications

- Networking and communication systems
- Industrial and outdoor systems
- Storage and server systems
- Automotive devices
- Fanless systems in harsh environment
- Profession video equipments
- Test and measurement equipments

**Package:** (Scale: none; dimensions are in mm)



Recommended Land Pattern:



## Pin Functions:

Pin	Function
1	OE
2	Ground
3	Output
4	V <sub>DD</sub>

\*Extended high frequency power decoupling is recommended (see test circuit for minimum recommendation). To ensure optimal performance, do not route RF traces beneath the package.

## Part Ordering Information:

**HX 251 V I FFFF.FFFFFFFF**

Voltage:

- 1 = +3.3V
- 2 = +2.5V
- 3 = +1.8V

Stability and Temp Range:

Stability	Temp Range
A = +/-25 ppm	-40/+90°C
B = +/-30 ppm	-40/+100°C
C = +/-30 ppm	-40/+105°C
D = +/-50 ppm	-40/+90°C
E = +/-50 ppm	-40/+100°C
F = +/-50 ppm	-40/+105°C
G = +/-70 ppm	-40/+125°C
H = +/-100 ppm	-40/+125°C

Frequency:

FFFF.FFFFFFFF  
MHz, "4 digits/decimal/6 digits" format