VT-860

Temperature Compensated Crystal Oscillator

Description

Vectron's VT-860 Temperature Compensated Crystal Oscillator (TCXO) is a quartz stabilized, Clipped sine wave output, analog temperature compensated oscillator, operating off a 3.3, 2.8, 2.5 or 1.8 volt supply in a hermetically sealed 2.0 x 1.6 mm ceramic package.

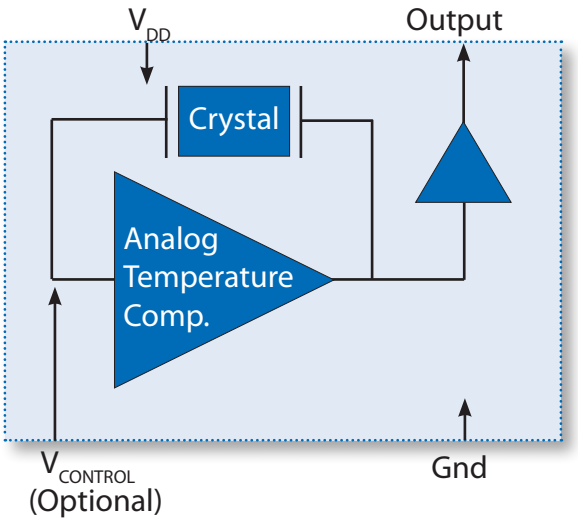
Features

- 13.000 - 52.000MHz Output Frequency
- ±0.5ppm Temperature Stability over -40 °C to 85 °C
- Optional Frequency Tuning
- Fundamental Crystal Design
- Gold over nickel contact pads
- Hermetically Sealed 2.0 x 1.6mm Ceramic SMD package
- Product is compliant to RoHS directive and fully compatible with lead free assembly

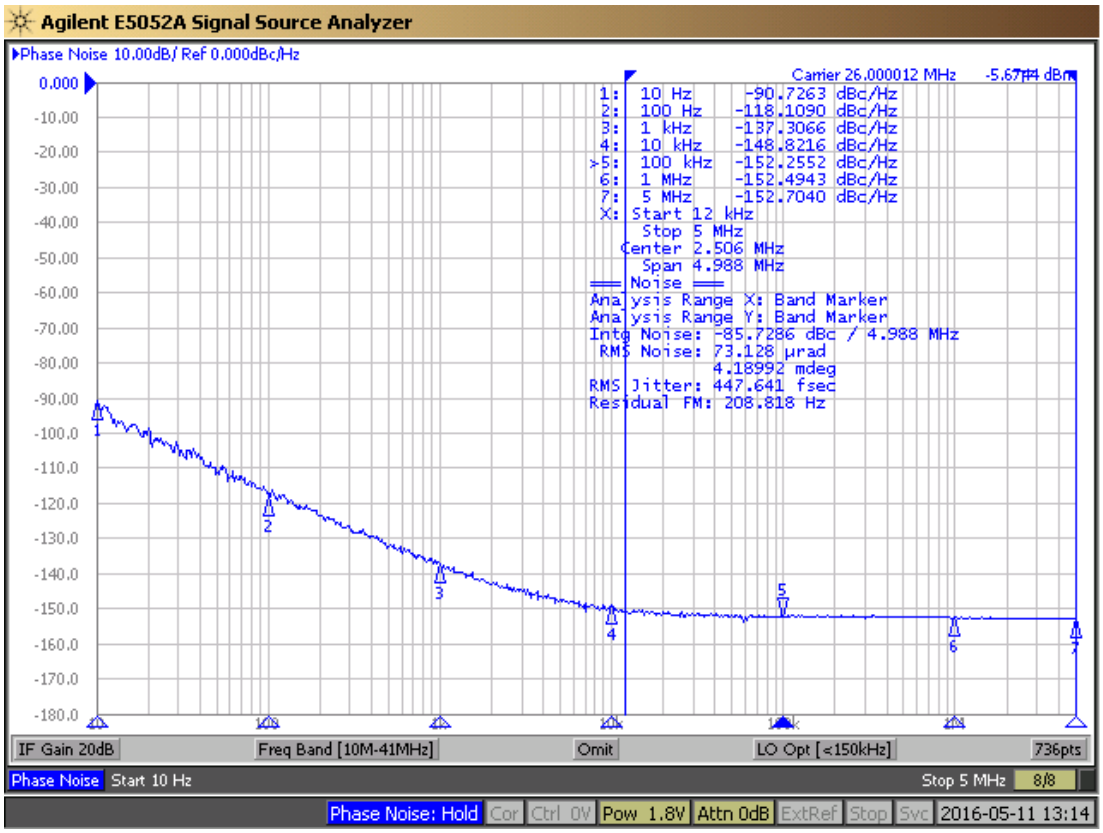
Applications

- GNSS Modules
- LoRa Base Station
- Wireless Connectivity
- Point to Point Radio
- Manpack Radio
- Test and Measurement

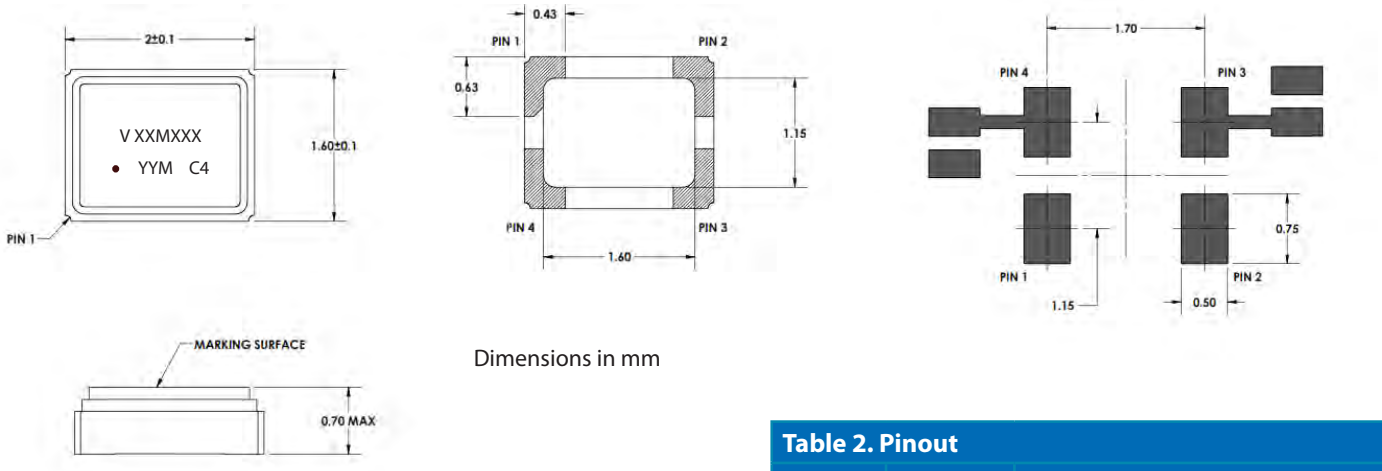
Block Diagram



Typical Phase Noise Performance (26MHz)



Package Outline Drawing & Pad Layout



Dimensions in mm

Marking Information

V - Vectron

XXMXX - Frequency (Example: 26M000)

YY - Year of Manufacture

M - Month of the Year (A-Jan, B-Feb.....K-Nov, L-Dec)

C4 - Manufacturing Location

• - Pin 1 Indicator

Table 2. Pinout

Pin #	Symbol	Function
1	Vc or NC	TCXO Control Voltage or No Connect
2	GND	Ground
3	OUT	RF Output
4	V_{DD}	Supply Voltage

Note:
0.1uF capacitor is a by-pass power supply filter capacitor placed between Pin4 (Vdd) and Ground for optimal performance. Optional 1000pF DC cut capacitor can be used in the output.