



OCXO Part No: OS560-2005-013

Issue 2; 6th May 2022

Features

- Temperature stability ±20ppb
- Low phase noise
- Frequency 20MHz
- Low pre-aged options available
- The flexible nature of the design means that variations to suit almost any application can be developed to meet individual customer requirements



- Temperature stability: ±20ppb over (-40 to +70)°C
- Output: Sinewave 7dBm nominal
- 3.3V Voltage: Warm up current: 720mA Quiescent current: 320mA

Phase Noise (typical)

F0₀+10Hz -128 dBc/Hz F0₀+100Hz -145 dBc/Hz F0₀+1KHz -155 dBc/Hz F0₀+10KHz -160 dBc/Hz F0₀+100KHz -168 dBc/Hz

Values based on 10MHz unit

Voltage / Load change

- ±5% supply voltage change: ±2ppb
- ±10% load change: ±10ppb

Ageing

After 30 days continuous operation:

- Per day: ±0.1ppb max.
- Per year: ±50ppb max.
- Warm up time: 5 minutes to within 0.1 ppm

Voltage Trim

- ±0.5ppm minimum
- Trim impedance $50K\Omega$

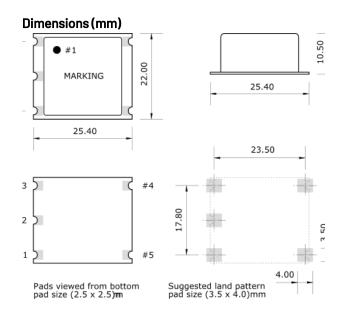
Reference Options:

3.0V

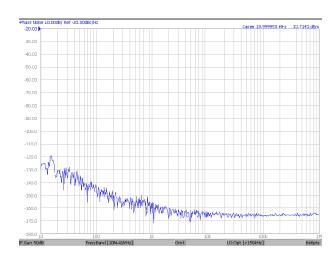
Environmental

- Electrostatic-Sensitive Device (ESD)
- Storage Temperature Range: (-40 to +125)°C
- Mechanical shock: MIL standard 202F, method 213, condition J





Phase Noise Plot



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Thermal shock: MIL standard 202F, method 107, condition A

Vibration: MIL standard 202F, method 204, condition B

Solderability: 5 seconds maximum at 230°C

3 seconds maximum at 350°C

Compliance

RoHS Status (2011/65/EU) - Compliant

REACH Status - Compliant

Packaging

Pack Style: Bulk

Ordering Information

 Unique customer part number and custom specification issued with each application

OCXO Part No: OS560-2005-013

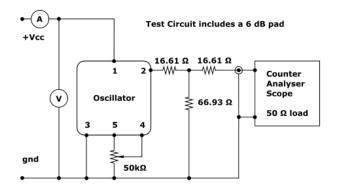
Frequency: 20MHz

Stability/Output/Voltage: Option C

Supply voltage code: V1= +3.3Vd.c. supply

Add suffix (R) for Vref output on pin #5

Test Circuit - Sinewave



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