



# OCXO Part No: OS240-2005-014

### Issue 2; 6th May 2022

#### **Features**

- Temperature stability ±10ppb
- 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: ±10ppb over (-20 to +70)°C
- Output: Sinewave OdBm 3.3V Voltage: Warm up current: 560mA Quiescent current: 320mA



F0<sub>0</sub>+10Hz -125 dBc/Hz F0<sub>0</sub>+100Hz -145 dBc/Hz F0<sub>0</sub>+1KHz -155 dBc/Hz F0<sub>0</sub>+10KHz -160 dBc/Hz F0₀+100KHz -165 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: 2 minutes to within 0.1 ppm

#### Voltage Trim

- ±0.5ppm minimum
- Trim impedance  $100 \text{K}\Omega$

## **Reference Options**

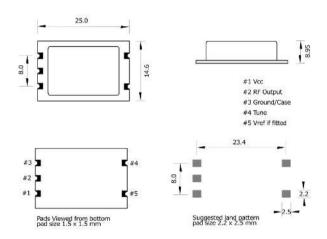
3.0V

## **Environmental**

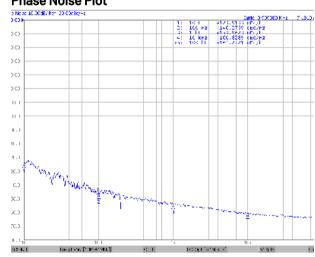
- Electrostatic-Sensitive Device (ESD)
- Storage Temperature Range: (-40 to +125)°C
- Mechanical shock: MIL standard 202F, method 213, condition J



# Dimensions (mm)



#### **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**

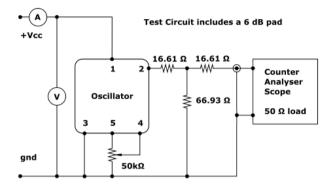
#### **Packaging**

Pack Style: Bulk

## **Ordering Information**

- Unique customer part number and custom specification issued with each application
- OCXO Part No: 0S240-2005-014
- Frequency: 20MHz
- Stability/Output/Voltage: Option B
- Supply voltage code: V1=+3.3Vd.c. supply
- Add suffix (R) for Vref output on pin #5

#### Test Circuit - Sine



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