

## OCXO Part No: OS560-2005-024

Issue 2; 6th May 2022

### Features

- Temperature stability  $\pm 10\text{ppb}$
- 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



### Option B

- Temperature stability:  $\pm 10\text{ppb}$  over (-20 to +70)°C
- Output: CMOS 15 pF, 45% 55%
- Voltage: 3.3V
- Warm up current: 720mA
- Quiescent current: 320mA

### Phase Noise (typical)

- $F_0+10\text{Hz}$  -128 dBc/Hz
- $F_0+100\text{Hz}$  -145 dBc/Hz
- $F_0+1\text{KHz}$  -155 dBc/Hz
- $F_0+10\text{KHz}$  -160 dBc/Hz
- $F_0+100\text{KHz}$  -168 dBc/Hz

Values based on 10MHz unit

### Voltage / Load change

- $\pm 5\%$  supply voltage change:  $\pm 2\text{ppb}$
- $\pm 10\%$  load change:  $\pm 10\text{ppb}$

### Ageing

After 30 days continuous operation:

- Per day:  $\pm 0.1\text{ppb}$  max.
- Per year:  $\pm 50\text{ppb}$  max.
- Warm up time: 5 minutes to within 0.1 ppm

### Voltage Trim

- $\pm 0.5\text{ppm}$  minimum
- Trim impedance 50Ω

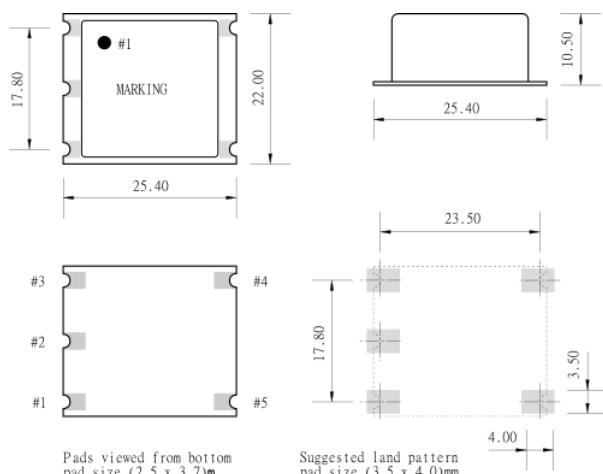
### Reference Options:

- 3.0V

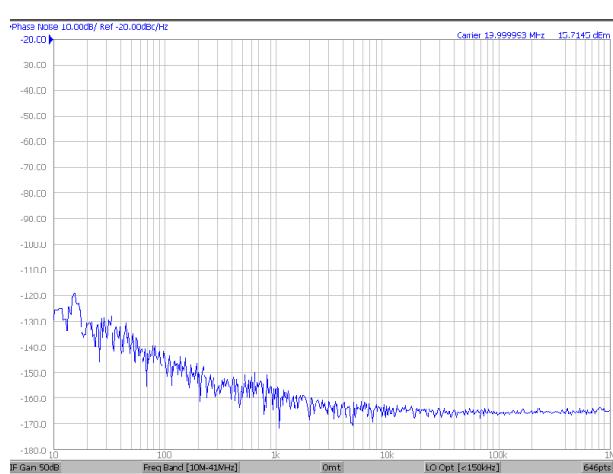
### Environmental

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

### Dimensions (mm)



### Phase Noise Plot



- Thermal shock: MIL standard 202, method 107, condition A
- Vibration: MIL standard 202, 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: OS560-2005-024
- Frequency:20MHz

## Test Circuit - CMOS

