

0CX0 Part No: 0S240-2005-011

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

Option B

- Temperature stability: ±10ppb over (-20 to +70)^oC
- Output: CMOS 15 pF, 45% 55%
- Voltage: 5.0V
- Warm up current: 390mA
- Quiescent current: 170mA

Phase Noise (typical)

- F0₀+10Hz -125 dBc/Hz
- F0₀+100Hz -145 dBc/Hz
- F0₀+1KHz -155 dBc/Hz
- F0₀+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 50KΩ

Reference Options

3.0V or 4.5V

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











- 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: 0S240-2005-011
- Frequency: 20MHz
- Stability/Output/Voltage: Option B
- Supply voltage code: V2= +5.0Vd.c. supply
- Add suffix (R) for Vref output on pin #5

Test Circuit - Sine

