



OCXO Model: OS400-1005-027

Issue 2; 17th May 2022

Features

- Temperature stability to ±10ppb
- Low phase noise
- Frequency 10MHz
- Industry standard package
- 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)°C
- Output: LVCMOS
- 45% 55% Duty cycle: 12.0V Voltage: Warm up current: 220mA **Ouiescent current:** 120mA

Phase Noise (typical)

FO₀+10Hz -125 dBc/Hz F0₀+100Hz -145 dBc/Hz F0₀+1KHz -155 dBc/Hz F0₀+10KHz -165 dBc/Hz F0₀+100KHz -168 dBc/Hz

Values based on a 10MHz unit

Voltage / Load change

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

Ageing

Bases on 10MHz unit after 30 days continuous operation:

- Per day: ±0.7ppb max. Per year: ±200ppb max.
- Warm up time: 5 minutes to within 1 ppm

Voltage Trim

- ±0.5ppm minimum
- Trim impedance 50KΩ

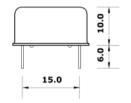
Reference Options

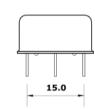
■ 4.5V

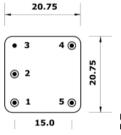
Environmental

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

Dimensions (mm)





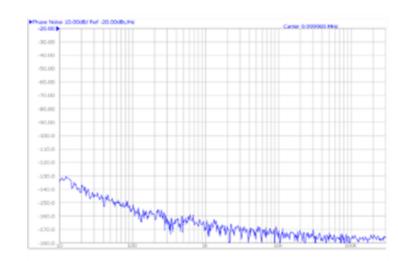


PIN CONNECTIONS

#1: Vcc #2: Output #3: Ground/Case Trim/Tune

#5: Vref if fitted

Pins viewed from the bottom pin diameter 0.45 mm



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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

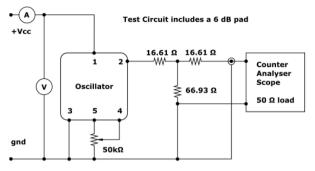
Packaging

Pack Style: Bulk

Ordering Information

- Unique customer part number and custom specification issued with each application
- OCXO Model: 0S400-1005-027
- Frequency: 10MHz
- Stability/Output/Voltage: Option B
- Supply voltage code: V3 = +12.0Vd.c. supply
- Add suffix (R) for Vref output on pin #5

Test Circuit - Sinewave



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