

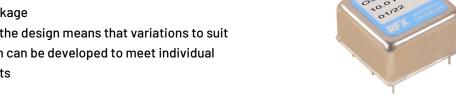


# OCXO Part No.: 0S400-1005-010

### Issue 2; 17th May 2022

### **Features**

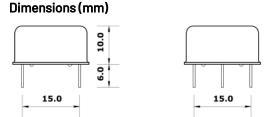
- Temperature stability to ±20ppb
- Low phase noise
- Frequency 10.00MHz
- Industry standard package
- The flexible nature of the design means that variations to suit almost any application can be developed to meet individual customer requirements



### Option C

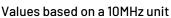
Temperature stability: ±20ppb over (-40 to +70)°C

Output: Sinewave 7dBm nominal Harmonics: -20dBc Voltage: 5.0V Warm up current: 470mA Quiescent current: 220mA



### Phase Noise (typical)

F0<sub>0</sub>+10Hz -130 dBc/Hz F0<sub>0</sub>+100Hz -155 dBc/Hz F0<sub>0</sub>+1KHz -165 dBc/Hz F0<sub>0</sub>+10KHz -170 dBc/Hz F0<sub>0</sub>+100KHz -172 dBc/Hz



### Voltage / Load change

±5% supply voltage change: ±2ppb

±10% load change: ±10ppb

#### 20.75 PIN CONNECTIONS • 3 4 ⊚ #1: Vcc 20.75 #2: Output ② 2 #3: Ground/Case Trim/Tune #5: Vref if fitted Pins viewed from the bottom pin diameter 0.45 mm 15.0

## 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 0.1ppm

### Voltage Trim

±0.5ppm minimum

Trim impedance  $50K\Omega$ 

#### **Reference Options**

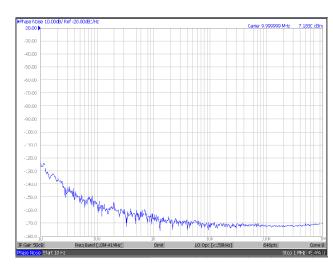
3.0V

#### Environmental

Electrostatic-Sensitive Device (ESD)

Storage Temperature Range: (-40 to +125)°C

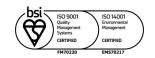
#### **Phase Noise Plot**



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- Mechanical shock: MIL standard 202F, method 213, condition J
- 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

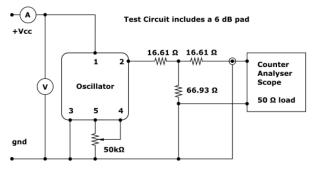
### **Ordering Information**

OCXO Part No.: 0S400-1005-010

Frequency: 10.00MHz

Stability/Output/Voltage: Option C

#### **Test Circuit - Sinewave**



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