

OCXOWST

Stratum 3 Compliant 3.3V OCXO with CMOS Output



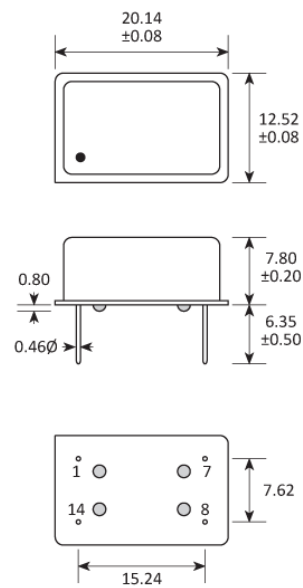
- Stratum 3 compliant
- Compact 14-pin DIL package (SMD optional)
- 3.3V supply voltage
- CMOS output
- Very fast warmup

CONFIGURABLE OPTIONS

| Parameter | Option Code |
|-----------------------------|-------------|
| Frequency | |
| Operating temperature range | |
| Any | |
| 0 to +70°C | D |
| -40 to +85°C | C |
| Package | |
| Through hole 14 pin DIL | |
| SMD option D1 | D1 |
| SMD option D2 | D2 |

SPECIFICATIONS

| | |
|-----------------------------|--|
| Frequency range | 10.0kHz ~ 54.0MHz |
| Dimensions | 20.1 x 12.5 x 8.0mm |
| Frequency stability | ±4.6ppm max overall (Including 15 years ageing) ±0.1ppm max vs V_{DD} ±10ppb max vs load ±10% ±0.28ppm max (0.56ppm p-p) vs. temperature |
| Short term stability | 5×10^{-10} , t 0.1 to 30s 5×10^{-11} typ at 1s |
| Internal calibration | ±1.0ppm max |
| Storage temperature range | -55 to +125°C |
| Output waveform | CMOS compatible '0' = +0.4V max, '1' = V_{DD} - 0.5V min 45:55 max Rise / fall times 7ns max (no load) |
| Load | 3pF min, 47pF max |
| Start up time | 5ms max |
| Supply voltage (V_{DD}) | +3.3V (±0.15V) |
| Input current | 350mA max for up to 10s @ 25°C during start up 120mA max @ +25°C 170mA max @ -20°C |
| Warm up time (secs) | 120s to within ±0.1ppm @ 25°C |
| Phase noise (typ @ 10MHz) | -100dBc/Hz @ 10Hz -130dBc/Hz @ 100Hz -140dBc/Hz @ 1kHz -145dBc/Hz @ 10kHz |
| Shock & vibration | 5,000g, 0.3ms ½-sine 10.0 ~ 2,000Hz, 20g |

PACKAGE DRAWING


| PIN | CONNECTION |
|-----|------------|
| 1 | Ground |
| 7 | Ground |
| 8 | Output |
| 14 | Supply |

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the OCXOWST please use the configurable options form to choose the options you require and then submit your configured product to our team. Our expert advisers are always happy to help with your requirements and can be contacted on +44 1460 256 100 or at sales@golledge.com.

Following product selection you will be issued with a seven character Golledge part number. Your Golledge part number is the internationally accepted Golledge manufacturing part number (MPN) that should be used for all project documentation, including bills of materials (BoMs) and purchase orders.

If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

APPLICATIONS

This OCXOWST oven controlled oscillator is suitable for a wide range of applications including:

- Digital switching
- Telecom transmission
- SONET / SDH / DWDM / FDM/36 / WIMAX
- Airborne equipment
- Battery operated systems
- Instrumentation
- Radio transceivers

HANDLING & STORAGE



Human Body Model (HBM) 1A (250V to <500V)

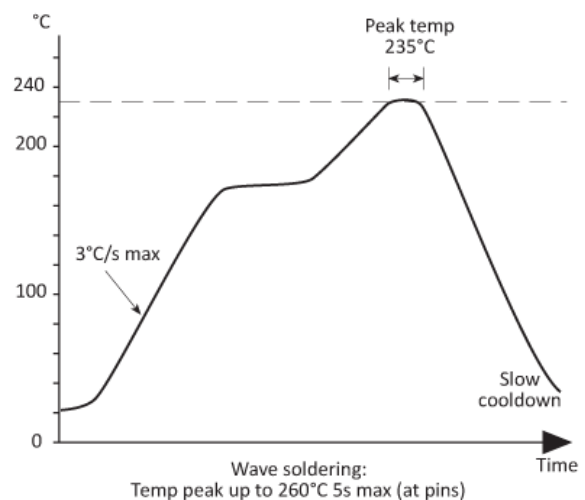


Moisture Sensitivity Level (MSL): 1 (or not applicable)

TECHNICAL RESOURCES

[DIL-14 OCXO SMD options.pdf](#)

SOLDERING PROFILE



CONSTRUCTION

Resistance weld

COMPLIANCE



RoHS compliant with no exemptions. [See our](#)

[declaration](#)



REACH compliant. [See our statement](#)



Free of conflict minerals. [See our declaration](#)



Free of Halogens. [See our declaration](#)



Free of Ozone-depleting substances. [See our](#)

[declaration](#)