

# OCXOVST

## Stratum 3 Compliant 5.0V OCXO with CMOS Output



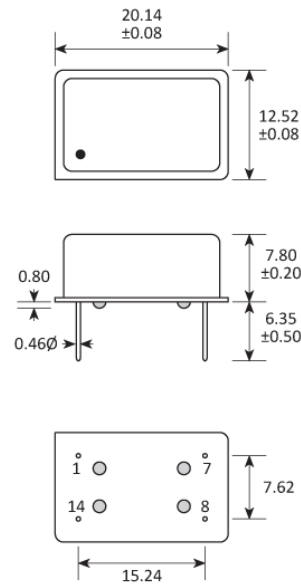
- Stratum 3 compliant
- Compact 14-pin DIL package (SMD optional)
- 5.0V supply voltage
- CMOS output
- Very fast warmup

### 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	5x10 <sup>-10</sup> , t 0.1 to 30s 5x10 <sup>-11</sup> 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)
Test load	3pF min, 47pF max
Start up time	5ms max
Supply voltage ( $V_{DD}$ )	+5.0V (±0.20V)
Input current	300mA max for up to 10s @ 25°C during start up 80mA max @ +25°C 120mA max @ -20°C
Warm up time (secs)	60s 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
Net mass	4890mg

**PACKAGE DRAWING**


PIN	CONNECTION
1	Ground
7	Ground
8	Output
14	Supply

Dimensions in mm

## ORDERING INFORMATION

To request a quotation for the OCXOVST 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](mailto: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 OCXOVST 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)

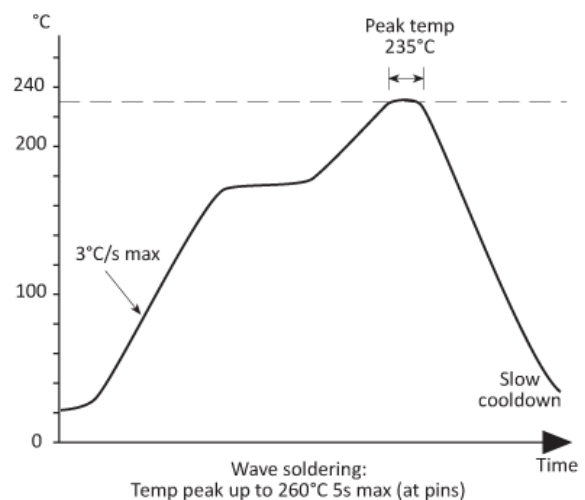


Moisture Sensitivity Level (MSL): 1 (or not applicable)

## TECHNICAL RESOURCES

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

## SOLDERING PROFILE



## CONSTRUCTION

Resistance weld

## COMPLIANCE

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Please refer to our **DOCUMENTS** section for more information.



RoHS compliant with no exemptions.



REACH compliant.



Free of conflict minerals.



Free from halogens.



Free from ozone-depleting substances.