

# MCOCXOVS

## 5V OCXO with Sine Output

- Compact 14-pin DIL package (SMD optional)
- 5.0V supply voltage
- Sine output
- Very fast warmup
- Low power consumption

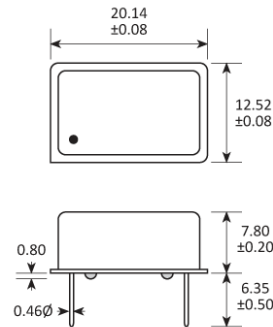


### CONFIGURABLE OPTIONS

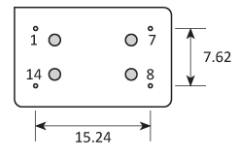
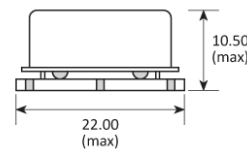
Parameter	Option Code
<b>Frequency</b>	
<b>Temperature stability</b>	
Any	
±0.075ppm max, 0 to +60°C	A
±0.15ppm max, -20 to +70°C	B
±0.25ppm max, -40 to +85°C	C
<b>Frequency adjustment</b>	
Any	
±3.0ppm min, control voltage 0.5~5.0V	V
±3.0ppm min, variable resistor 0~10kΩ	R
None (int accuracy ±1.0ppm)	A
None (int accuracy ±0.5ppm)	B
<b>Package</b>	
Through hole 14 pin DIL	
SMD option D1	D1
SMD option D2	D2

**SPECIFICATIONS**

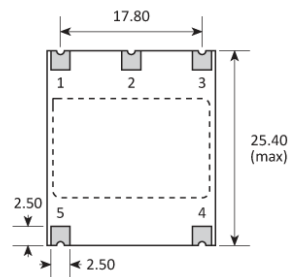
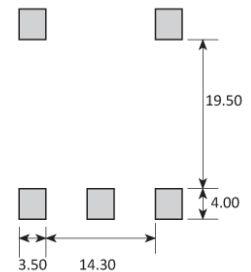
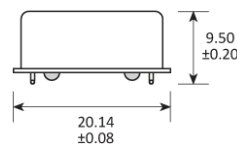
Frequency range	10.0kHz ~ 54.0MHz
Dimensions	20.1 x 12.5 x 8.0mm
Frequency stability	±0.5ppm max first year ±3.0ppm max in 10 years ±0.1ppm max vs $V_{DD}$ ±10ppb max vs load ±10%
Short term stability	$5 \times 10^{-10}$ , t 0.1 to 30s $5 \times 10^{-11}$ typ at 1s
Storage temperature range	-55 to +125 °C
Output waveform	Sinewave from 50Ω Harmonics < -10dBc Spurii < -70dBc
Level	≥ 4dBm / 50Ω (≤20MHz) ≥ 0dBm / 50Ω (>20MHz)
Supply voltage ( $V_{DD}$ )	+5.0V (±0.2V)
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)	-110dBc/Hz @ 10Hz -135dBc/Hz @ 100Hz -145dBc/Hz @ 1kHz -150dBc/Hz @ 10kHz
Shock & vibration	5,000g, 0.3ms ½-sine 10.0 ~ 2,000Hz, 20g

**PACKAGE DRAWING**
**Through-hole (DIL-14)**


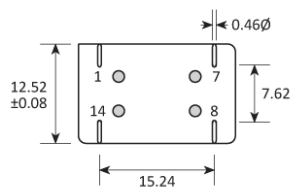
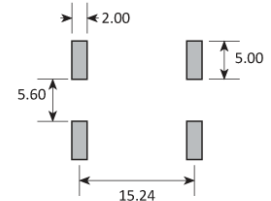
PIN	CONNECTION
1	Freq adjustment or Ground
7	Ground
8	Output
14	Supply


**SMD Option D1 - mounted PCB**


PAD	CONNECTION
1	Freq adjustment or Ground
2	Not connected
3	Supply
4	Output
5	Ground


**SOLDER PAD LAYOUT**

**TOP VIEW**
**SMD Option D2 - formed leads**


PIN	CONNECTION
1	Freq adjustment or Ground
7	Ground
8	Output
14	Supply


**SOLDER PAD LAYOUT**


Dimensions in mm

## ORDERING INFORMATION

To request a quotation for the MCOCXOVS 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.

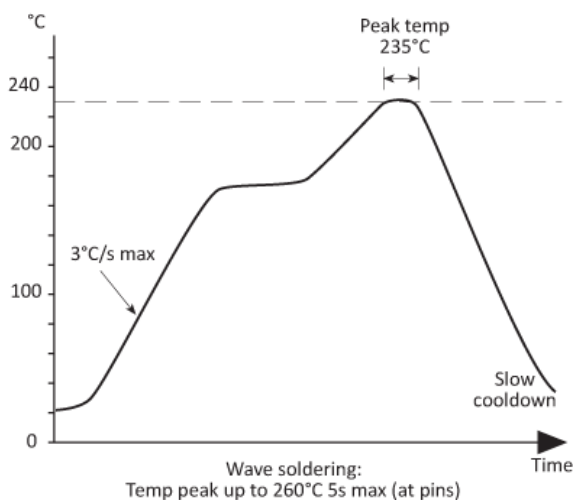
If you have any queries regarding any of our documentation our dedicated sales team will be happy to help.

## APPLICATIONS

This MCOCXOVS 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

## SOLDERING PROFILE



## HANDLING & STORAGE



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



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

## CONSTRUCTION

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Resistance weld

## COMPLIANCE

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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](#)