

# HCD331

## 5V OCXO with CMOS Output

- Temperature stability down to 20ppb
- Single 5V oven & oscillator supply
- Low height compact package
- Standard European IEC CO-08 pin-out
- Custom options available



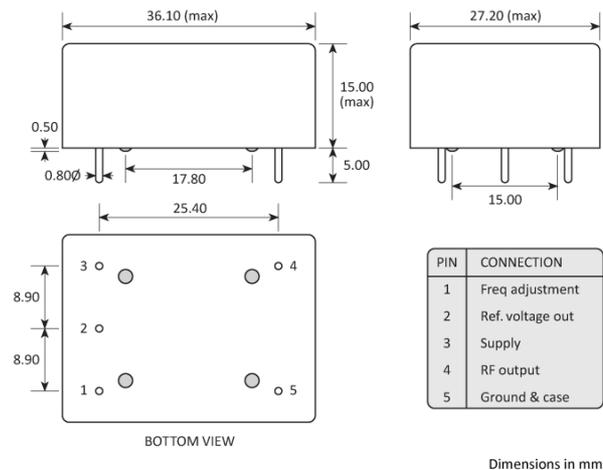
### CONFIGURABLE OPTIONS

Parameter	Option Code
<b>Frequency</b>	
<b>Ageing per day (at despatch)</b>	
Any	
< $\pm 1 \times 10^{-8}$	A
< $\pm 5 \times 10^{-9}$	B
< $\pm 3 \times 10^{-9}$	C
<b>Temperature stability</b>	
Any	
< $\pm 1 \times 10^{-7}$	M
< $\pm 5 \times 10^{-8}$	N
< $\pm 2 \times 10^{-8}$	P
<b>Operating temperature range</b>	
Any	
0 to +50°C	A
-20 to +60°C	D
-20 to +70°C	F
<b>Supply voltage (<math>V_{DD}</math>)</b>	
+5.0V ( $\pm 0.25$ V)	L

## SPECIFICATIONS

Frequency range	13.0 ~ 20.0MHz
Dimensions	36.1 x 27.2 x 15.0mm
Frequency stability	< $\pm 3 \times 10^{-7}$ per year < $\pm 5 \times 10^{-8}$ per 10% change in $V_{DD}$
Storage temperature range	-40 to +90 °C
Output waveform	50pF CMOS, 45:55 duty
Frequency adjustment	$\pm 1 \times 10^{-5}$ (typ) over +0.5 to +4.0V (sufficient for 15 years ageing min) Stabilised +4.0V supply provided
Power consumption	4.5W max at switch on 1.0W typ when stabilised at 25 °C
Warm up	< $\pm 5 \times 10^{-8}$ after 10mins at +25 °C
Phase noise (@ 10.0MHz)	< -100dBc/Hz @ 10Hz < -120dBc/Hz @ 100Hz < -135dBc/Hz @ 1kHz < -150dBc/Hz @ 10kHz < -150dBc/Hz @ 50kHz
Shock (IEC 68-2-27 Test Ea)	50g for 11ms
Vibration (IEC 68-2-06 Test Fc)	10-55Hz, 1.5mm. 55-500Hz, 10g

## PACKAGE DRAWING



## ORDERING INFORMATION

To request a quotation for the HCD331 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.

## HANDLING & STORAGE



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



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

## CONSTRUCTION

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Solder sealed metal can

## COMPLIANCE

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Lead-free (< 0.1% by weight )



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](#)