

HCD181

Low Frequency OCXO with CMOS

Output

- CMOS / TTL compatible output
- Low profile package
- Separate oven & oscillator supplies



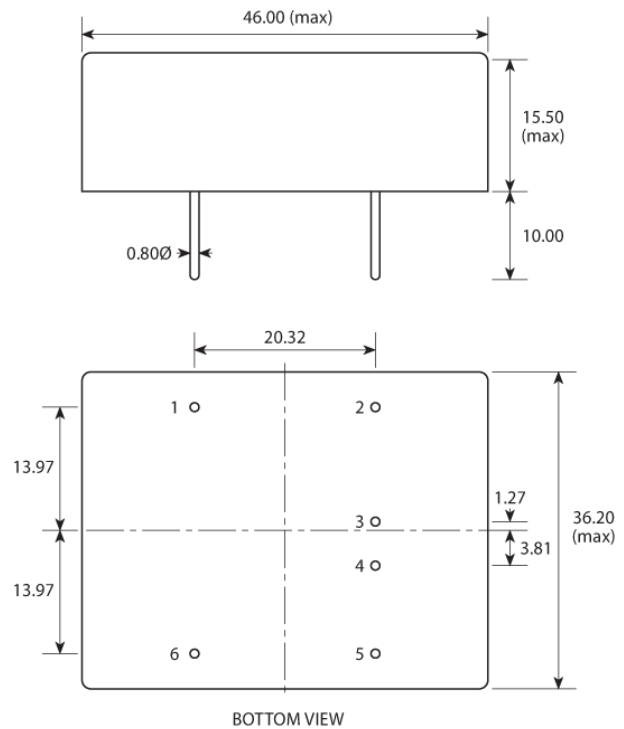
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Ageing per day (at despatch)	
Any	
< $\pm 1 \times 10^{-8}$	A
< $\pm 5 \times 10^{-9}$	B
Temperature stability	
Any	
< $\pm 1 \times 10^{-7}$	M
< $\pm 5 \times 10^{-8}$	N
Operating temperature range	
Any	
0 to +50°C	A
-20 to +60°C	D
-20 to +70°C	F
Oven supply voltage	
+12.0V (± 0.5 V)	N
Other options from 9~30V	

SPECIFICATIONS

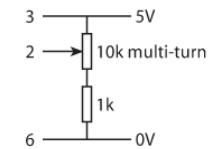
Frequency range	30.0kHz ~ 5.0MHz
Dimensions	46.0 x 36.2 x 15.5mm
Frequency stability	$\pm 5 \times 10^{-7}$ / year max $\pm 1 \times 10^{-7}$ per 5% change in V_{DD}
Storage temperature range	-40 to +90 °C
Output waveform	CMOS / TTL compatible
Frequency adjustment	$\pm 2 \times 10^{-5}$ typ, +0.5 to +5.0V (sufficient for 10 years ageing min)
Oscillator supply voltage (V_{DD})	+5.0V (± 0.5 V)
Oscillator power consumption	40mA max
Oven 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)	< -110dBc/Hz @ 10Hz < -130dBc/Hz @ 100Hz < -145dBc/Hz @ 1kHz < -150dBc/Hz @ 10kHz
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



PIN	CONNECTION
1	Case
2	Freq Adjustment
3	Osc supply +5V
4	RF output
5	Oven supply
6	Ground

VOLTAGE CONTROL



Dimensions in mm

ORDERING INFORMATION

To request a quotation for the HCD181 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.

CONSTRUCTION

Solder sealed metal can

HANDLING & STORAGE



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



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

COMPLIANCE



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](#)