

HCD381

Very High Frequency OCXO with Ultra-low Phase Noise and CMOS Output



- -160dBc/Hz noise floor
- Frequencies up to 100MHz
- No multiplier
- Standard European IEC CO-08 pin-out
- Custom options available

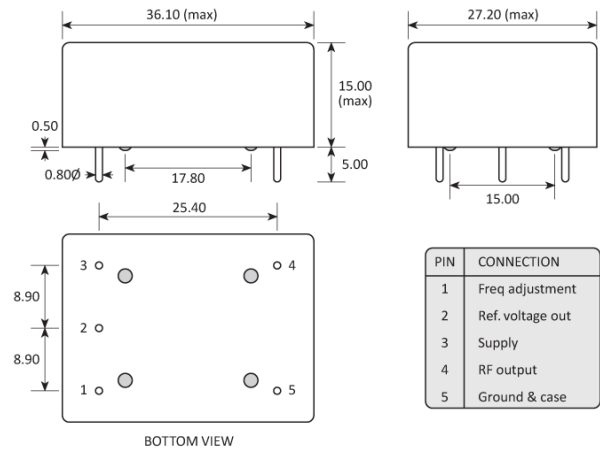
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Ageing per day (at despatch)	
Any	
$< 5 \times 10^{-9}$	B
$< 3 \times 10^{-9}$	C
$< 1 \times 10^{-9}$	D
Temperature stability	
Any	
$< 5 \times 10^{-8}$	N
$< 2 \times 10^{-8}$	P
$< 1 \times 10^{-8}$	R
Operating temperature range	
Any	
0 to +50°C	A
-10 to +60°C	C
-20 to +70°C	F
Supply voltage (V_{DD})	
Any	
+9V ($\pm 0.5V$)	M
+12V ($\pm 0.5V$)	N
+15V ($\pm 0.5V$)	P
+18V ($\pm 0.5V$)	R

SPECIFICATIONS

Frequency range	30.0 ~ 100MHz
Dimensions	36.1 x 27.2 x 15.5mm
Frequency stability	< 1 to 5×10^{-7} per year < 5×10^{-9} per 10% change in V_{DD}
Storage temperature range	-40 to +90°C
Output waveform	CMOS / TTL compatible
Frequency adjustment	$\pm 5 \times 10^{-7}$ (typ) over +0.5 to +6.0V (sufficient for 10 years ageing min) Stabilised +6.0V supply provided
Power consumption	4.5W max at switch on 1.0W typ when stabilised at +25°C
Warm up	< 5×10^{-8} after 10mins at +25°C
Allan deviation (ADEV), 1 sec	< 2×10^{-11}
Phase noise (@ 50.0MHz)	< -75 dBc/Hz @ 1Hz < -105 dBc/Hz @ 10Hz < -135 dBc/Hz @ 100Hz < -150 dBc/Hz @ 1kHz < -160 dBc/Hz @ 10kHz < -160 dBc/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



Dimensions in mm

ORDERING INFORMATION

To request a quotation for the HCD381 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)

MATERIAL COMPOSITION



Lead-free (< 0.1% by weight)



RoHS 2 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](#)

OTHER INFORMATION

About Golledge

We are the UK's leading supplier of frequency control products and are proud to serve the global electronics industry. Our philosophy is a focus firmly on your requirements by striving to meet and exceed your needs. We do this by ensuring the utmost quality and consistency in our products and services. If you have any queries about the Golledge service or any of our products please get in touch, we'd love to hear from you.

Come and visit

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Our customer feedback is testament to our quality; "Never had such good service as this from anyone in 35 years of being in the industry, this is impressive and has really helped us out of a corner to keep the design flowing" Andy (Senior Design Engineer), "As always your support is state of the art" Nicoleta (Material Management), "Legendary work - as usual it has to be said" John (Operations).

To take advantage of our highly praised service get in touch with us today.