HCD360

12V Tight Stability OCXO with Sine Output



- Temperature stability down to 5ppb
- Single 12V supply (15V or 18V optional)
- Compact package
- Standard European IEC CO-08 pin-out
- Custom options available

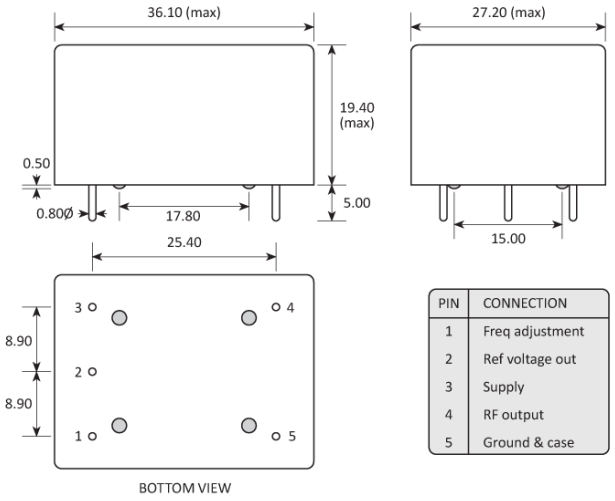
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Ageing per day (at despatch)	
Any	
< $\pm 1 \times 10^{-9}$	D
< $\pm 5 \times 10^{-10}$	E
< $\pm 2 \times 10^{-10}$	F
Temperature stability	
Any	
< $\pm 2 \times 10^{-8}$	P
< $\pm 1 \times 10^{-8}$	R
< $\pm 5 \times 10^{-9}$	S
Operating temperature range	
Any	
0 to +50°C	A
-10 to +60°C	C
-20 to +70°C	F
-40 to +70°C	G
Supply voltage (V_{DD})	
Any	
+12V (±0.5V)	N
+15V (±0.5V)	P
+18V (±0.5V)	R

SPECIFICATIONS

Frequency range	5.0 ~ 20.0MHz
Dimensions	36.1 x 27.2 x 19.4mm
Frequency stability	< ±5x10^{-8} per year < ±1x10^{-9} per 10% change in V_{DD}
Short term stability	< ±1x10^{-11} over 1 sec
Storage temperature range	-40 to +90°C
Output waveform	Sine wave, 7dBm (±2dBm) into 50Ω
Frequency adjustment	±5x10^{-7} (typ) over +0.5 to +7.0V (sufficient for 10 years ageing min) Stabilised +7.0V supply provided
Power consumption	5.0W max at switch on 1.2W typ when stabilised at 25°C
Warm up	< ±1x10^{-8} after 10mins at +20°C
Phase noise (@ 10.0MHz)	< -125 dBc/Hz @ 10Hz < -135 dBc/Hz @ 100Hz < -150 dBc/Hz @ 1kHz < -155 dBc/Hz @ 10kHz < -155 dBc/Hz @ 50kHz
Harmonics	< -30dB wrt carrier
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	Freq adjustment
2	Ref voltage out
3	Supply
4	RF output
5	Ground & case

Dimensions in mm

ORDERING INFORMATION

To request a quotation for the HCD360 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.

HANDLING & STORAGE

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

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

CONSTRUCTION

Solder sealed metal can

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.

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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.