

HCD370

12V Tight Stability OCXO with Sine Output and Low Profile



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

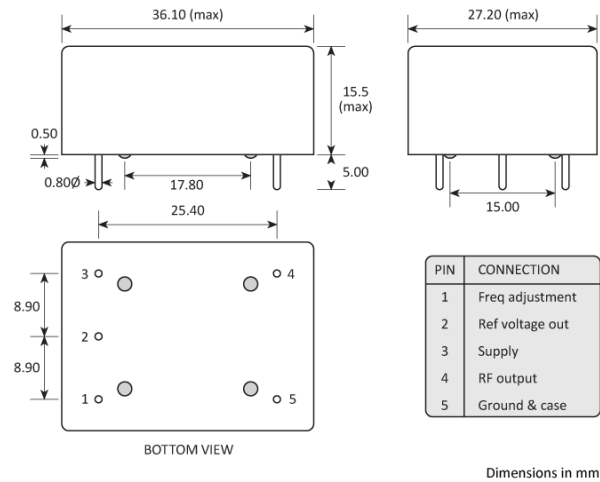
CONFIGURABLE OPTIONS

Parameter	Option Code
Frequency	
Ageing per day (at despatch)	
Any	
< 1x10 ⁻⁹	D
< 5x10 ⁻¹⁰	E
< 2x10 ⁻¹⁰	F
Temperature stability	
Any	
< 2x10 ⁻⁸	P
< 1x10 ⁻⁸	R
< 5x10 ⁻⁹	S
< 3x10 ⁻⁹	T
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 15.5mm
Frequency stability	< 5x10 ⁻⁸ per year < 1x10 ⁻⁹ per 10% change in V _{DD}
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
Allan deviation (ADEV), 1 sec	< 1x10 ⁻¹² (10.0MHz)
Phase noise (@ 10.0MHz)	< -95 dBc/Hz @ 1Hz < -130 dBc/Hz @ 10Hz < -140 dBc/Hz @ 100Hz < -150 dBc/Hz @ 1kHz < -155 dBc/Hz @ 10kHz < -155 dBc/Hz @ 100kHz
Harmonics	< -30dB wrt carrier

PACKAGE DRAWING



ORDERING INFORMATION

To request a quotation for the HCD370 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

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](#)