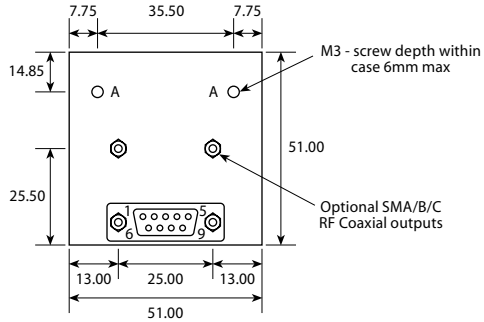
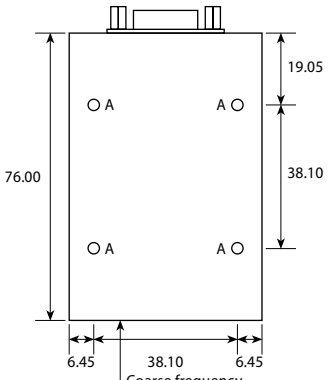
12V OCXO 10MHz Sine Output

HCD145





PIN	CONNECTION
1	Freq adjust CW
2	Fine adjust
3	Freq adjust CCW
4	Isolated RF output
5	Isolated RF output
6	+ Supply
7	DO NOT USE
8	- Supply
9	Case

Scale 1:2

Features

- **Chassis mounted**
- **AT or SC cut overtone crystal**
- **High performance**
- **Custom options available**

Ordering Information

Product name + variant + frequency

eg: **HCD145L 10.0MHz**
HCD145SC 10.0MHz

Option code X (eg HCD145L/X) denotes a custom spec.

Specifications

HCD145L: AT cut crystal, low phase noise

HCD145SC: SC cut crystal for enhanced performance

Parameters	Variant L	Variant SC	Option Codes
Frequency: 10.0MHz	■	■	
Frequency stability:			
$\pm1x10^{-9}$ / day at despatch	■		
$\pm2x10^{-10}$ / day at despatch		■	
$\pm1x10^{-7}$ / year max	■		
$\pm2x10^{-8}$ / year max		■	
$\pm3x10^{-9}$ per 10% change in V_{DD}	■	■	
$\pm1x10^{-9}$ per 10% change in load	■	■	
Short term stability (1 sec):			
$\pm5x10^{-11}$	■		
$\pm1x10^{-11}$		■	
Temperature stability:			
$\pm1x10^{-8}$ over -20 to +70°C	■		
$\pm3x10^{-9}$ over -20 to +70°C		■	
Operating temperature range:			
-20 to +70°C	■	■	
Other options from -40°C	□	□	specify
Storage temperature range:			
-40 to +90°C	■	■	
Output waveform:			
0.25V RMS (+1dBm) into 50Ω	■	■	
Frequency adjustment:			
$\pm1x10^{-6}$ typ (electrical)	■		
$\pm5x10^{-6}$ typ (mechanical)	■		
$\pm5x10^{-7}$ typ (electrical)		■	
$\pm2x10^{-6}$ typ (mechanical)		■	
Supply voltage (V_{DD}):			
+12.0V (±0.5V)	■	■	
Other options from 12~30V	□	□	specify
Power consumption:			
5.0W max at switch on	■	■	
2.0W typ when stabilised at 25°C	■	■	
Warm up:			
$\pm2x10^{-8}$ after 20mins at +25°C	■		
$\pm1x10^{-8}$ after 20mins at +25°C		■	
Phase noise (@ 10.0MHz):			
< -120dBc/Hz @ 10Hz	■		
< -130dBc/Hz @ 100Hz	■		
< -140dBc/Hz @ 1kHz	■		
< -155dBc/Hz @ 10kHz	■		
< -120dBc/Hz @ 10Hz		■	
< -140dBc/Hz @ 100Hz		■	
< -150dBc/Hz @ 1kHz		■	
< -158dBc/Hz @ 10kHz		■	
Connections: 9 way 'D' with locks	■	■	
Straight or 90° header PCB mount	□	□	specify
Additional RF output: None	■	■	
SMA, SMB or SMC	□	□	specify
Shock: IEC 68-2-27 Test Ea 50G for 11ms	■	■	
Vibration: IEC 68-2-06 Test Fc 10-55Hz, 1.5mm. 55-500Hz, 10G	■	■	

Tel: **+44 1460 256 100** Fax: **+44 1460 256 101** E-mail: **sales@golledge.com** Web: **www.golledge.com**

Golledge

01 May 1998