

HCD210

High Frequency Chassis Mounted OCXO with Sine Output

- High frequencies up to 100MHz
- Internal multiplier above 50.0MHz
- Single oven & oscillator supply
- 12V supply standard, 15V or 18V optional



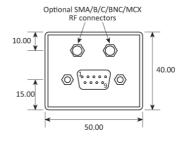
CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Ageing per day (at despatch)	
Any	
< ±1x10 ⁻⁸	А
< ±5x10 ⁻⁹	В
< ±3x10 ⁻⁹	С
Temperature stability	
Any	
$<\pm 1x10^{-7}$	M
< ±5x10 ⁻⁸	N
Operating temperature range	
Any	
0 to +50°C	А
-20 to +60°C	D
-20 to +70°C	F
Supply voltage (V _{DD})	
Any	
+12V (±0.5V)	N
+15V (±0.5V)	Р
+18V (±0.5V)	R
External connectors	
Any	
D9	D
D9+single SMA	А
D9+twin SMA, no RF output on the D9	G
Other (single or twin SMB/C/MCX)	

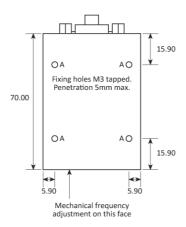


SPECIFICATIONS

Frequency range	5.0 ~ 100.0MHz
Dimensions	70 x 50 x 40mm
Frequency stability	< ±5x10 ⁻⁷ per year
	$< \pm 1 \times 10^{-7}$ per 5% change in V _{DD}
	< ±5x10 ⁻¹⁰ per 10% change in load
Short term stability	< ±5x10 ⁻¹² over 1 sec (5.0MHz)
	$< \pm 1 \times 10^{-11}$ over 1 sec (10.0MHz)
Storage	-40 to +90°C
temperature range	
Output waveform	Sine wave, 1.5V p-p ± 0.5 V into 50Ω
Frequency	±2x10 ⁻⁶ (typ) over +0.5 to +6.0V
adjustment	(sufficient for 10 years ageing min)
	Stabilised +6.0V supply provided
	Mechanical ±5x10 ⁻⁷
Power	4.5W max at switch on
consumption	1.0W typ when stabilised at 25°C
Warm up	$< \pm 5 \times 10^{-8}$ after 10mins at $+25$ °C
Phase noise (@	< -110 dBc/Hz @ 10Hz
10.0MHz)	< -130 dBc/Hz @ 100Hz
	< -145 dBc/Hz @ 1kHz
	< -150 dBc/Hz @ 10kHz
	< -150 dBc/Hz @ 50kHz
Harmonics	< -30dB wrt carrier
Shock (IEC 68-2-27	50g for 11ms
Test Ea)	
Vibration (IEC 68-	10-55Hz, 1.5mm. 55-500Hz, 10g
2-06 Test Fc)	

PACKAGE DRAWING





PIN	CONNECTION
1	Freq adjust (+ve)
2	Fine adjust
3	Freq adjust (-ve)
4	NC or isolated RF output
5	NC or isolated RF output
6	+ Supply
7	NC or alarm output
8	- Supply
Q	Case

Dimensions in mm



ORDERING INFORMATION

To request a quotation for the HCD210 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

Shielded metal enclosure

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