

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	
< ±1x10 ⁻⁷	Μ
< ±5x10 ⁻⁸	Ν
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)	Ν
+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
	< ±1x10 ⁻⁷ per 5% change in V _{DD}
	< ±5x10 ⁻¹⁰ per 10% change in load
Short term stability	< ±5x10 ⁻¹² over 1 sec (5.0MHz)
	< ±1x10 ⁻¹¹ over 1 sec (10.0MHz)
Storage	-40 to +90°C
temperature range	
Output waveform	Sine wave, 1.5V p-p ±0.5V into 50 Ω
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	< ±5x10 ⁻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



Dimensions in mm



ORDERING INFORMATION

To request a guotation 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.

CONSTRUCTION

Shielded metal enclosure

HANDLING & STORAGE



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



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

COMPLIANCE



declaration