

# **HCD220**

## **OCXO Sine Output**

- Temperature stability down to 1ppb
- Twin RF outputs available
- Oven alarm option on D9 connector
- Custom options available



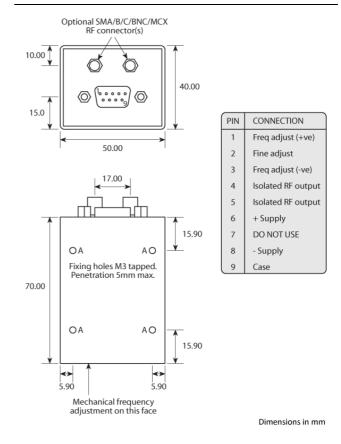
Parameter	Option Code
Frequency	
Ageing per day (at despatch)	
Any	
< ±1x10 <sup>-9</sup>	D
< ±2x10 <sup>-10</sup>	F
< ±1x10 <sup>-10</sup> (<10MHz only)	G
Temperature stability	
Any	
< ±1x10 <sup>-8</sup>	R
< ±5x10 <sup>-9</sup>	S
< ±3x10 <sup>-9</sup>	Т
< ±1x10 <sup>-9</sup>	V
Operating temperature range	
Any	
0 to +50°C	А
-10 to +60°C	С
-20 to +70°C	F
-40 to +70°C	G
Output waveform	
Sine wave, 7dBm (±1dBm) into 50Ω	
Supply voltage (V <sub>DD</sub> )	
Any	
+12V (±0.5V)	N
+24V (±0.5V)	Т
External connectors	
Any	
D9	D
D9 + single SMA	А
D9 + twin SMA	G



## **SPECIFICATIONS**

Frequency range	5.0 ~ 16.0MHz
Frequency stability	< ±2x10 <sup>-8</sup> per year
	$< \pm 1 \text{x} 10^{-9}$ per 10% change in $V_{DD}$
	< ±5x10 <sup>-10</sup> per 10% change in load
Short term stability	< ±5x10 <sup>-12</sup> over 1 sec (5.0MHz)
	$< \pm 1 \times 10^{-11}$ over 1 sec (10.0MHz)
Storage temperature	-40 to +90°C
range	
Frequency	±5x10 <sup>-7</sup> (typ) over +0.5 to +8V
adjustment	Mechanical ±5x10 <sup>-7</sup>
Sufficient for 10	
years ageing min	
Stabilised +8V	
supply provided	
Power consumption	5.0W max at switch on
	2.0W typ when stabilised at 25°C
Warm up	< ±1x10 <sup>-8</sup> after 12mins at +25°C
Phase noise (@	< -130 dBc/Hz @ 10Hz
10.0MHz)	< -140 dBc/Hz @ 100Hz
	< -155 dBc/Hz @ 1kHz
	< -158 dBc/Hz @ 10kHz
	< -160 dBc/Hz @ 50kHz
Harmonics	< -30dB wrt carrier
Shock (IEC 68-2-27	50G for 11ms
Test Ea)	
Vibration (IEC 68-2-	10-55Hz, 1.5mm. 55-500Hz, 10G
06 Test Fc)	

## **PACKAGE DRAWING**





## **ORDERING INFORMATION**

To request a quotation for the HCD220 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 <a href="mailto:sales@golledge.com">sales@golledge.com</a>.

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

## CONSTRUCTION

Shielded metal enclosure

## **MATERIAL COMPOSITION**



Lead-free (< 0.1% by weight)



Product is RoHS 2 compliant



## 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.

#### Come and visit

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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.