HCD681

High Performance OCXO with CMOS Output and US pin-out

- Temperature stability down to 1ppb
- Single 12V supply (12V ~ 30V optional)
- Standard US footprint & pin-out
- Custom options available

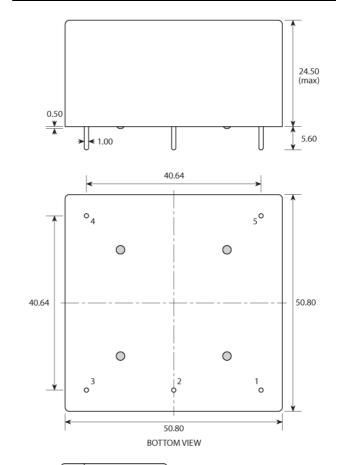


CONFIGURABLE OPTIONS		
Parameter	Option Code	
Frequency		
Ageing per day (at despatch)		
Any		
< 1x10 ⁻⁹	D	
$< 5x10^{-10}$	E	
< 2x10 ⁻¹⁰	F	
Temperature stability		
Any		
< 1x10 ⁻⁸	R	
< 5x10 ⁻⁹	S	
< 3x10 ⁻⁹	T	
< 1x10 ⁻⁹	V	
Operating temperature range		
Any		
-10 to +60°C	С	
-20 to +70°C	F	
-40 to +70°C	G	
Supply voltage (V _{DD})		
+12V (±0.5V)	N	
Other options from 12~30V		
Close-in phase noise (@ 5.0MHz)		
Any		
< -110 dBc/Hz @ 1Hz, <-135 @ 10Hz		
< -123 dBc/Hz @ 1Hz, <-140 @ 10Hz	Z	
< -150 dBc/Hz @ 100Hz		
Close-in phase noise (@ 10.0MHz)		
Any		
< -95 dBc/Hz @ 1Hz, <-130 @ 10Hz		
< -108 dBc/Hz @ 1Hz, <-135 @ 10Hz	Z	
< -145 dBc/Hz @ 100Hz		

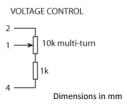
SPECIFICATIONS

Frequency range	5.0 ~ 20.0MHz
Dimensions	50.8 x 50.8 x 24.5mm
Frequency stability	< 1x10 ⁻⁷ per year (option D)
	< 2x10 ⁻⁸ per year (option F)
	< 1x10 ⁻⁹ per 10% change in V _{DD}
	< 5x10 ⁻¹⁰ per 10% change in load
Storage temperature	-40 to +90°C
range	
Output waveform	CMOS / TTL compatible
Frequency	$\pm 5 \times 10^{-7}$ (typ) over +0.5 to +7.0V
adjustment	(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 8mins at +20°C
Allan deviation	< 5x10 ⁻¹³ over 1 sec (5.0MHz)
(ADEV), 1 sec	< 1x10 ⁻¹² over 1 sec (10.0MHz)
Far-out phase noise	< -155 dBc/Hz @ 1kHz
(all freqs)	< -157 dBc/Hz @ 10kHz
	< -157 dBc/Hz @ 100kHz
Harmonics	< -30dB wrt carrier

PACKAGE DRAWING



PIN	CONNECTION
1	Freq adjustment
2	Ref voltage out
3	RF output
4	Ground
5	Supply



ORDERING INFORMATION

To request a quotation for the HCD681 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. \underline{S}

See our

declaration



REACH compliant. See our statemen



Free of conflict minerals. <u>See our declaration</u>



Free of Halogens. <u>See our declaration</u>



Free of Ozone-depleting substances. <u>See our</u>

declaration