

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



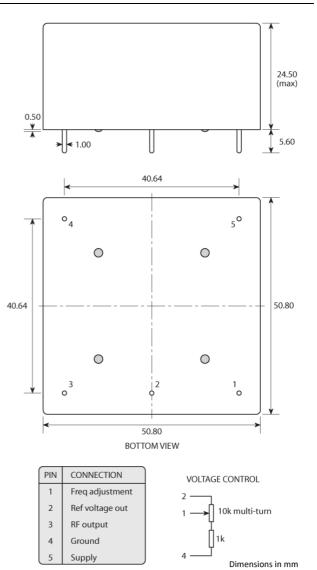
Parameter	Option Code
Frequency	Option Code
Ageing per day (at despatch)	
Any < 1x10 ⁻⁹	D
< 5x10 ⁻¹⁰	E
< 2x10 ⁻¹⁰	E F
	F
Temperature stability	
Any	
< 1x10 ⁻⁸	R
< 5x10 ⁻⁹	S
< 3x10 ⁻⁹	Т
< 1x10 ⁻⁹	V
Operating temperature range	
Any	
-10 to +60°C	C
-20 to +70°C	F
-40 to +70°C	G
Supply voltage (V _{DD})	
+12V (±0.5V)	Ν
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	±5x10 ⁻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





ORDERING INFORMATION

To request a guotation 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.

CONSTRUCTION

Solder sealed metal can

HANDLING & STORAGE



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

-			
<i>.</i>			ι.
F 4.			
	A	٥.	
~			

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

COMPLIANCE

