

HCD686

Fast Warm Up OCXO with CMOS Output and US Pin-out

- Fast warm up
- 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	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	

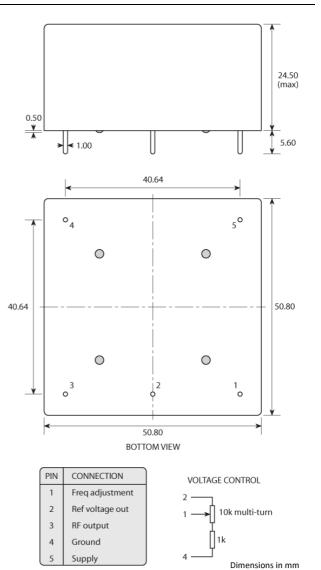




SPECIFICATIONS

Frequency range Dimensions Frequency stability	5.0 ~ 20.0MHz 50.8 x 50.8 x 24.5mm < 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 range	-40 to +90°C
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	10.0W max at switch on 1.3W typ when stabilised at 25°C
Warm up	< 1x10 ⁻⁸ after 2.25mins at +25°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



bsi, ISO 9001 Quality Management ISO I4001 Ervironmental Management RS33498 EMS644441



See our

ORDERING INFORMATION

To request a guotation for the HCD686 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)



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

MATERIAL COMPOSITION



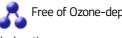
See our statement



Free of conflict minerals. See our declaration



Free of Halogens. See our declaration



Free of Ozone-depleting substances. See our

declaration





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.

