

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



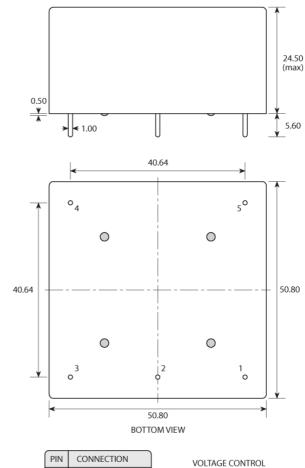
| Parameter | Option Code |
|-----------------------------------|-------------|
| Frequency | |
| Ageing per day (at despatch) | |
| Any | |
| < 1x10 ⁻⁹ | D |
| < 5x10 ⁻¹⁰ | E |
| < 2x10 ⁻¹⁰ | F |
| Temperature stability | |
| Any | |
| < 1x10 ⁻⁸ | R |
| < 5x10 ⁻⁹ | S |
| < 3x10 ⁻⁹ | Т |
| < 1x10 ⁻⁹ | V |
| Operating temperature range | |
| Any | |
| -10 to +60°C | 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 |



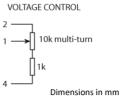
SPECIFICATIONS

| Frequency range 5 | .0 ~ 20.0MHz |
|---------------------|--|
| Dimensions 5 | 0.8 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 | 40 to +90°C |
| Output waveform C | MOS / TTL compatible |
| adjustment (s | 5x10 ⁻⁷ (typ) over +0.5 to +7.0V sufficient for 10 years ageing min) tabilised +7.0V supply provided |
| . orre. consumption | 0.0W max at switch on .3W typ when stabilised at 25°C |
| Warm up < | $1x10^{-8}$ after 2.25mins at $+25$ °C |
| | 5x10 ⁻¹³ over 1 sec (5.0MHz) 1x10 ⁻¹² over 1 sec (10.0MHz) |
| (all freqs) < | -155 dBc/Hz @ 1kHz -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 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.

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.

See our

declaration



REACH compliant. See our statement



Free of conflict minerals. See our declaration



Free of Halogens. See our declaration



Free of Ozone-depleting substances. See our

declaration