HCD660

High Performance OCXO with Sine Output and European pin-out

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

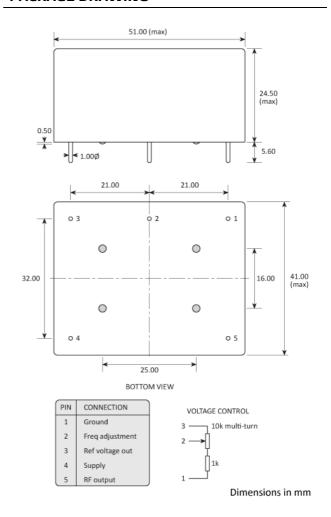


CONFIGURABLE OPTIONS	
Parameter	Option Code
Frequency	
Ageing per day (at despatch)	
Any	
< 1x10 ⁻⁹	D
< 5x10 ⁻¹⁰	E
< 2x10 ⁻¹⁰	F
Temperature stability	
Any	
< 1x10 ⁻⁸	R
< 5x10 ⁻⁹	S
< 3x10 ⁻⁹	Т
< 1x10 ⁻⁹	V
Operating temperature range	
Any	
-10 to +60°C	С
-20 to +70°C	F
-40 to +70°C	G
Output waveform	
Sine wave, 7dBm (±1dBm) into 50Ω	
Supply voltage (V _{DD})	
+12V (±0.5V)	N
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	51.0 x 41.0 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 range	-40 to +90°C
Frequency adjustment	±5x10 ⁻⁷ (typ) over +0.5 to +7.0V
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 (5.0MHz)
(ADEV), 1 sec	< 1x10 ⁻¹² (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 quotation for the HCD660 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. <u>Se</u>

See our

declaration



REACH compliant. See our statement



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