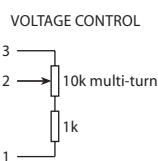


BOTTOM VIEW

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



Scale 1:1

### Features

- Temperature stability down to 1ppb**
- Single oven & oscillator supply**
- Standard European pin-out**
- Custom options available**

### Specifications

Parameters	Product HCD760	Option Codes
<b>Frequency range:</b> 5.0 ~ 20.0MHz	■	
<b>Ageing per day (at despatch):</b> < $\pm 2 \times 10^{-10}$ < $\pm 1 \times 10^{-10}$	■ □	F G
<b>Frequency stability:</b> < $\pm 1 \times 10^{-8}$ per year < $\pm 2.5 \times 10^{-10}$ per 5% change in $V_{DD}$ < $\pm 5 \times 10^{-10}$ per 10% change in load	■ ■ ■	
<b>Short term stability:</b> < $\pm 1 \times 10^{-12}$ over 1 sec	■	
<b>Temperature stability:</b> < $\pm 1 \times 10^{-8}$ < $\pm 5 \times 10^{-9}$ < $\pm 3 \times 10^{-9}$ < $\pm 1 \times 10^{-9}$	□ □ ■ □	R S T V
<b>Operating temperature range:</b> 0 to +50°C -10 to +60°C -20 to +70°C -40 to +70°C	□ □ ■ □	A C F G
<b>Storage temperature range:</b> -40 to +90°C	■	
<b>Output waveform:</b> Sine wave, 7dBm ( $\pm 1$ dBm) into 50Ω Other options to +13dBm max	■ □	specify
<b>Frequency adjustment:</b> $\pm 2.5 \times 10^{-7}$ (typ) over +0.5 to +7.0V (sufficient for 10 years ageing min) Stabilised +7.0V supply provided	■	
<b>Supply voltage (<math>V_{DD}</math>):</b> +12V ( $\pm 0.5$ V) +24V ( $\pm 0.5$ V) Other options from 12-30V	■ □ □	N T specify
<b>Power consumption:</b> 5.5W max at switch on 1.75W typ when stabilised at 25°C	■ ■	
<b>Warm up:</b> < $\pm 5 \times 10^{-9}$ after 20mins at +25°C	■	
<b>Phase noise (@ 10.0MHz):</b> < -130 dBc/Hz @ 10Hz < -140 dBc/Hz @ 100Hz < -150 dBc/Hz @ 1kHz < -155 dBc/Hz @ 10kHz < -155 dBc/Hz @ 50kHz	■ ■ ■ ■ ■	
<b>Harmonics:</b> < -30dB wrt carrier	■	
<b>Shock:</b> IEC 68-2-27 Test Ea 50G for 11ms	■	
<b>Vibration:</b> IEC 68-2-06 Test Fc 10-55Hz, 1.5mm. 55-500Hz, 10G	■	

■ Standard. □ Optional - Please specify required code(s) when ordering

### Ordering Information

Part No, or product name + option codes + frequency

eg: **HCD760/FTFN 10.0MHz**

**HCD760/GVFN 5.0MHz**

Option code X (eg HCD760/X) denotes a custom specification.