



Scale 1:1

## Features

- ▀▀▀ **Temperature stability down to 5ppb**
- ▀▀▀ **Single 12V supply (15v or 18V optional)**
- ▀▀▀ **Compact package**
- ▀▀▀ **Standard European IEC CO-08 pin-out**
- ▀▀▀ **Custom options available**

## Specifications

Parameters	Product	Option Codes
	HCD370	
<b>Frequency range:</b> 5.0 ~ 20.0MHz	■	
<b>Ageing per day (at despatch):</b> $< \pm 1 \times 10^{-9}$ $< \pm 5 \times 10^{-10}$ $< \pm 2 \times 10^{-10}$	□ ■ □	D E F
<b>Frequency stability:</b> $< \pm 5 \times 10^{-8}$ per year $< \pm 1 \times 10^{-9}$ per 10% change in $V_{DD}$	■ ■	
<b>Short term stability:</b> $< \pm 1 \times 10^{-11}$ over 1 sec	■	
<b>Temperature stability:</b> $< \pm 2 \times 10^{-8}$ $< \pm 1 \times 10^{-8}$ $< \pm 5 \times 10^{-9}$	□ ■ □	P R S
<b>Operating temperature range:</b> 0 to +50C -10 to +60C -20 to +70C -40 to +70C	□ □ ■ □	A C F G
<b>Storage temperature range:</b> -40 to +90C	■	
<b>Output waveform:</b> Sine wave, 7dBm ( $\pm 2$ dBm) into 50Ω	■	
<b>Frequency adjustment:</b> $\pm 5 \times 10^{-7}$ (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) +15V ( $\pm 0.5$ V) +18V ( $\pm 0.5$ V)	■ □ □	N P R
<b>Power consumption:</b> 5.0W max at switch on 1.2W typ when stabilised at 25C	■ ■	
<b>Warm up:</b> $< \pm 1 \times 10^{-8}$ after 10mins at +20C	■	
<b>Phase noise (@ 10.0MHz):</b> $< -125$ dBc/Hz @ 10Hz $< -135$ dBc/Hz @ 100Hz $< -150$ dBc/Hz @ 1kHz $< -155$ dBc/Hz @ 10kHz $< -155$ dBc/Hz @ 50kHz	■ ■ ■ ■ ■	
<b>Harmonics:</b> $< -30$ dB 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: **HCD370/DPFN 10.0MHz**

**HCD370/ERFN 5.0MHz**

Option code X (eg HCD370/X) denotes a custom specification.