



Scale 1:1

Features

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

Specifications

Parameters	Product	Option Codes
	HCD370	
Frequency range:	5.0 ~ 20.0MHz	■
Ageing per day (at despatch):	$< 1 \times 10^{-9}$ □ $< 5 \times 10^{-10}$ ■ $< 2 \times 10^{-10}$ □	D E F
Frequency stability:	$< 5 \times 10^{-8}$ per year ■ $< 1 \times 10^{-9}$ per 10% change in V_{DD} ■	
Temperature stability:	$< 2 \times 10^{-8}$ □ $< 1 \times 10^{-8}$ ■ $< 5 \times 10^{-9}$ □	P R S
Operating temperature range:	0 to +50°C □ -10 to +60°C □ -20 to +70°C ■ -40 to +70°C □	A C F G
Storage temperature range:	-40 to +90°C	■
Output waveform:	Sine wave, 7dBm (± 2 dBm) into 50Ω	■
Frequency adjustment:	$\pm 5 \times 10^{-7}$ (typ) over +0.5 to +7.0V (sufficient for 10 years ageing min) Stabilised +7.0V supply provided	■
Supply voltage (V_{DD}):	+12V (± 0.5 V) ■ +15V (± 0.5 V) □ +18V (± 0.5 V) □	N P R
Power consumption:	5.0W max at switch on ■ 1.2W typ when stabilised at 25°C ■	
Warm up:	$< 1 \times 10^{-8}$ after 10mins at +20°C	■
Allan deviation (ADEV), 1 sec:	$< 1 \times 10^{-12}$ (10.0MHz)	■
Phase noise (@ 10.0MHz):	< -95 dBc/Hz @ 1Hz ■ < -30 dBc/Hz @ 10Hz ■ < -140 dBc/Hz @ 100Hz ■ < -150 dBc/Hz @ 1kHz ■ < -155 dBc/Hz @ 10kHz ■ < -155 dBc/Hz @ 100kHz ■	
Harmonics:	< -30 dB wrt carrier	■

■ 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.