



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):	$< 1 \times 10^{-9}$ $< 5 \times 10^{-10}$ $< 2 \times 10^{-10}$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	D E F
Frequency stability:	$< 5 \times 10^{-8}$ per year $< 1 \times 10^{-9}$ per 10% change in V_{DD}	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Temperature stability:	$< 2 \times 10^{-8}$ $< 1 \times 10^{-8}$ $< 5 \times 10^{-9}$ $< 3 \times 10^{-9}$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	P R S T
Operating temperature range:	0 to +50°C -10 to +60°C -20 to +70°C -40 to +70°C	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	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)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N P R
Power consumption:	5.0W max at switch on 1.2W typ when stabilised at 25°C	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
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 < -130 dBc/Hz @ 10Hz < -140 dBc/Hz @ 100Hz < -150 dBc/Hz @ 1kHz < -155 dBc/Hz @ 10kHz < -155 dBc/Hz @ 100kHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
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.