



## Features

- ▢ Temperature stability down to 20ppb
- ▢ Single 5V oven & oscillator supply
- ▢ Standard European IEC CO-08 pin-out
- ▢ Custom options available

## Specifications

Parameters	Product	Option Codes
	HCD350	
Frequency range:	5.0 ~ 20.0MHz	■
Ageing per day (at despatch):	$< \pm 1 \times 10^{-9}$ $< \pm 5 \times 10^{-10}$ $< \pm 2 \times 10^{-10}$	■ D ■ E □ F
Frequency stability:	$< \pm 5 \times 10^{-8}$ per year $< \pm 1 \times 10^{-9}$ per 10% change in $V_{DD}$	■
Short term stability:	$< \pm 1 \times 10^{-12}$ over 1 sec	■
Temperature stability:	$< \pm 2 \times 10^{-8}$ $< \pm 1 \times 10^{-8}$ $< \pm 5 \times 10^{-9}$	■ P ■ R □ S
Operating temperature range:	0 to +50°C -10 to +60°C -20 to +70°C	□ A □ C ■ F
Storage temperature range:	-40 to +90°C	■
Output waveform:	Sine wave, 7dBm ( $\pm 2$ dBm) into 50Ω	■
Frequency adjustment:	$\pm 5 \times 10^{-7}$ (typ) over +0.5 to +4.0V (sufficient for 10 years ageing min) Stabilised +4.0V supply provided	■
Supply voltage ( $V_{DD}$ ):	+5.0V ( $\pm 0.5$ V)	■ L
Power consumption:	5.0W max at switch on 1.2W typ when stabilised at 25°C	■
Warm up:	$< \pm 2 \times 10^{-8}$ after 8mins at +20°C	■
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	■ ■ ■ ■ ■ ■
Harmonics:	$< -30$ dB wrt carrier	■
Shock:	IEC 68-2-27 Test Ea 50G for 11ms	■
Vibration:	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: **HCD350/ERFL 10.0MHz**

**HCD350/DPFL 5.0MHz**

Option code X (eg HCD350/X) denotes a custom specification.