



## Features

- ▶ -160dBc/Hz noise floor
- ▶ Frequencies up to 100MHz
- ▶ No multiplier
- ▶ Standard European IEC CO-08 pin-out
- ▶ Custom options available

## Specifications

Parameters	Product	Option Codes
	HCD381	
Frequency range:	30.0 ~ 100MHz	■
Ageing per day (at despatch):	$< 5 \times 10^{-9}$ $< 3 \times 10^{-9}$ $< 1 \times 10^{-9}$	<input type="checkbox"/> B <input type="checkbox"/> C <input checked="" type="checkbox"/> D
Frequency stability:	$< 1$ to $5 \times 10^{-7}$ per year $< 5 \times 10^{-9}$ per 10% change in $V_{DD}$	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Temperature stability:	$< 5 \times 10^{-8}$ $< 2 \times 10^{-8}$ $< 1 \times 10^{-8}$	<input type="checkbox"/> N <input type="checkbox"/> P <input checked="" type="checkbox"/> R
Operating temperature range:	0 to +50°C -10 to +60°C -20 to +70°C	<input type="checkbox"/> A <input checked="" type="checkbox"/> C <input type="checkbox"/> F
Storage temperature range:	-40 to +90°C	■
Output waveform:	CMOS / TTL compatible	■
Frequency adjustment:	$\pm 5 \times 10^{-7}$ (typ) over +0.5 to +6.0V (sufficient for 10 years ageing min) Stabilised +6.0V supply provided	■
Supply voltage ( $V_{DD}$ ):	+9V ( $\pm 0.5V$ ) +12V ( $\pm 0.5V$ ) +15V ( $\pm 0.5V$ ) +18V ( $\pm 0.5V$ )	<input type="checkbox"/> M <input checked="" type="checkbox"/> N <input type="checkbox"/> P <input type="checkbox"/> R
Power consumption:	4.5W max at switch on 1.0W typ when stabilised at +25°C	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Warm up:	$< 5 \times 10^{-8}$ after 10mins at +25°C	■
Allan deviation (ADEV), 1 sec:	$< 2 \times 10^{-11}$	■
Phase noise (@ 50.0MHz):	$< -75$ dBc/Hz @ 1Hz $< -105$ dBc/Hz @ 10Hz $< -135$ dBc/Hz @ 100Hz $< -150$ dBc/Hz @ 1kHz $< -160$ dBc/Hz @ 10kHz $< -160$ dBc/Hz @ 50kHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
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: **HCD381/BPCN 100MHz**

**HCD381/CRCN 50.0MHz**

Option code X (eg HCD381/X) denotes a custom specification.

♦ Some combinations of frequency and specification may not be available, or may be subject to extended leadtimes