



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
	HCD380	
Frequency range: 30.0 ~ 100MHz	■	
Ageing per day (at despatch): < 5x10 ⁻⁹ < 3x10 ⁻⁹ < 1x10 ⁻⁹	□ □ ■	B C D
Frequency stability: < 1 to 5x10 ⁻⁷ per year < 5x10 ⁻⁹ per 10% change in V _{DD}	■ ■	
Temperature stability: < 5x10 ⁻⁸ < 2x10 ⁻⁸ < 1x10 ⁻⁸	□ □ ■	N P R
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 (±1dBm) into 50Ω	■	
Frequency adjustment: ±5x10 ⁻⁷ (typ) over +0.5 to +6.0V (sufficient for 10 years ageing min) Stabilised +6.0V supply provided	■	
Supply voltage (V_{DD}): +9V (±0.5V) +12V (±0.5V) +15V (±0.5V) +18V (±0.5V)	□ ■ □ □	M N P R
Power consumption: 4.5W max at switch on 1.0W typ when stabilised at +25°C	■ ■	
Warm up: < 5x10 ⁻⁸ after 10mins at +25°C	■	
Allan deviation (ADEV), 1 sec: < 2x10 ⁻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	■ ■ ■ ■ ■ ■	
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: **HCD380/BPCN 100MHz**

HCD380/CRCN 50.0MHz

Option code X (eg HCD380/X) denotes a custom specification.

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