



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 (± 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 (± 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: < -30dB 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.