



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):	$< \pm 1 \times 10^{-9}$ <input checked="" type="checkbox"/> $< \pm 5 \times 10^{-10}$ <input checked="" type="checkbox"/> $< \pm 2 \times 10^{-10}$ <input type="checkbox"/>	D E F
Frequency stability:	$< \pm 5 \times 10^{-8}$ per year <input checked="" type="checkbox"/> $< \pm 1 \times 10^{-9}$ per 10% change in V_{DD} <input checked="" type="checkbox"/>	
Short term stability:	$< \pm 1 \times 10^{-12}$ over 1 sec	
Temperature stability:	$< \pm 2 \times 10^{-8}$ <input checked="" type="checkbox"/> $< \pm 1 \times 10^{-8}$ <input checked="" type="checkbox"/> $< \pm 5 \times 10^{-9}$ <input type="checkbox"/>	P R S
Operating temperature range:	0 to +50°C <input type="checkbox"/> -10 to +60°C <input type="checkbox"/> -20 to +70°C <input checked="" type="checkbox"/>	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 <input checked="" type="checkbox"/> 1.2W typ when stabilised at 25°C <input checked="" type="checkbox"/>	
Warm up:	$< \pm 2 \times 10^{-8}$ after 8mins at +20°C	
Phase noise (@ 10.0MHz):	< -95 dBc/Hz @ 1Hz <input checked="" type="checkbox"/> < -130 dBc/Hz @ 10Hz <input checked="" type="checkbox"/> < -140 dBc/Hz @ 100Hz <input checked="" type="checkbox"/> < -150 dBc/Hz @ 1kHz <input checked="" type="checkbox"/> < -155 dBc/Hz @ 10kHz <input checked="" type="checkbox"/> < -155 dBc/Hz @ 100kHz <input checked="" type="checkbox"/>	
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.