

## **Features**

- Sine output
- Temperature stability down to 50ppb
- Single 5V oven and oscillator supply
- Low profile compact package
- Standard European IEC CO-08 pin-out
- Custom options available

## Standard Models

The table below shows the most common models; in most cases selecting one of these will ensure best combination of price, performance and availability.

Product Code	Freq	Ageing per day	Temp stability
HCD300/BNDL	5.0MHz	±5×10 <sup>-9</sup>	±5×10 <sup>-8</sup> -20+60°C
HCD300/BNDL	10.0MHz	±5×10 <sup>-9</sup>	±5×10 <sup>-8</sup> -20+60°C

• Parar	Standard / optional	Code	
Frequency range:	5.0 ~ 20.0MHz	Standard	
Ageing per day (at dispatch):	< 1×10 <sup>-8</sup>	Optional	Α
	< 5×10 <sup>-9</sup>	Standard	В
Frequency stability:	< 5×10 <sup>-7</sup> per year max	Standard	
	< 5×10 <sup>-8</sup> per 5% change V <sub>DD</sub>	Standard	
Temperature stability:	< 1×10 <sup>-7</sup>	Optional	М
	< 5×10 <sup>-8</sup>	Standard	N
Operating temperature range:	0 to 50°C	Optional	Α
	-20 to +60°C	Standard	D
	-20 to +70°C	Optional	F
Storage temp:	-40 to +90°C	Standard	
Output waveform:	Sine wave, 1.5V p-p ±0.5v into 50Ω	Standard	
Frequency adjustment:	±5×10 <sup>-6</sup> typ (10MHz), +0.5 to +4.0V (sufficient for 10 years ageing min) Stabilised +4.0V supply provided	Standard	
Supply Voltage (V <sub>DD</sub> ):	+5.0V (±0.5V)	Standard	L
Power consumption:	4.5W max at switch on	Standard	
	1.0W typ (stabilised at 25°C)	Standard	
Warm up:	±5×10 <sup>-8</sup> after 10mins at 25°C	Standard	
Phase noise (@10MHz):	< -1050dBc/Hz @ 10Hz	Standard	-
	< -125dBc/Hz @ 100Hz	Standard	
	< -145dBc/Hz @ 1kHz	Standard	
	< -150dBc/Hz @ 10kHz	Standard	
	< -150dBc/Hz @ 50kHz	Standard	
Shock:	IEC68-2-27 Test Ea 50G for 11ms	Standard	
Vibration:	IEC68-2-06 Test Fc 10-55Hz, 1.5mm. 55-500Hz, 10G	Standard	





