

Features

- 50pF HCMOS
- Temperature stability down to 20ppb
- 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
HCD331/BNDL	16.384MHz	±5×10 ⁻⁹	±5×10 ⁻⁸ -20+60°C
HCD331/BNDL	19.440MHz	±5×10 ⁻⁹	±5×10 ⁻⁸ -20+60°C

• Parar	Standard / Option	Code	
Frequency range:	13.0 ~ 20.0MHz	Standard	
Ageing per day (at dispatch):	< 1×10 ⁻⁸	Optional	Α
	< 5×10 ⁻⁹	Standard	В
	< 3×10 ⁻⁹	Optional	С
Frequency stability:	< 5×10 ⁻⁷ per year max	Standard	
	< 5×10 ⁻⁸ per 5% change V _{DD}	Standard	
Temperature stability:	< 1×10 ⁻⁷	Optional	М
	< 5×10 ⁻⁸	Standard	N
	< 2×10 ⁻⁸	Optional	Р
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:	50pF HCMOS, 45:55 duty	Standard	
Frequency adjustment:	±1×10 ⁻⁵ typ (10MHz), +0.5 to +4.0V (sufficient for 15 years ageing min) Stabilised +4.0V supply provided	Standard	
Supply Voltage (V _{DD}):	+5.0V (±0.25V)	Standard	L
Power consumption:	4.5W max at switch on	Standard	
	< 1.0W typ (stabilised at 25°C)	Standard	
Warm up:	< ±5×10 ⁻⁸ after 10mins at 25°C	Standard	
Phase noise (@10MHz):	< -100dBc/Hz @ 10Hz	Standard	
	< -120dBc/Hz @ 100Hz	Standard	
	< -135dBc/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	





