

Features

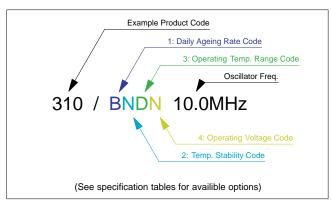
- Temperature stability down to 5ppb
- Single 12V oven and oscillator supply (15V or 18V optional)
- Compact package
- Standard European IEC CO-08 pin-out
- Custom options available

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
HCD360/DPFN	5.0MHz	±1×10 ⁻⁹	±2×10 ⁻⁸ -20+70°C
HCD360/ERFN	5.0MHz	±5×10 ⁻¹⁰	±1×10 ⁻⁸ -20+70°C
HCD360/DPFN	10.0MHz	±1×10 ⁻⁹	±2×10 ⁻⁸ -20+70°C
HCD360/ERFN	10.0MHz	±5×10 ⁻¹⁰	±1×10 ⁻⁸ -20+70°C

HCD360ERFN 12V S/N 543475	



• Parar	Standard / Optional	Code	
Frequency range:	5.0 ~ 20.0MHz	Standard	
Ageing per day (at dispatch):	< 1×10 ⁻⁹	Optional	D
	< 5×10 ⁻¹⁰	Standard	E
	< 2×10 ⁻¹⁰	Optional	F
Frequency stability:	< 5×10 ⁻⁸ per year max	Standard	
	< 1×10 ⁻⁹ per 10% change V _{DD}	Standard	
Temperature stability:	< 2×10 ⁻⁸	Optional	Р
	< 1×10 ⁻⁸	Standard	R
	< 5×10 ⁻⁹	Optional	S
Operating temperature	0 to +50°C	Optional	Α
range:	-10 to +60°C	Optional	С
	-20 to +70°C	Standard	F
	-40 to +70°C	Optional	G
Storage temp:	orage temp: -40 to +90°C		-3-27
Output waveform:	Sine wave, 7dBm (±2dBm) into 50Ω	Standard	
Frequency adjustment:	±5×10 ⁻⁷ (typ) over +0.5 to +7.0V (sufficient for 10 years ageing min) Stabilised +7.0V supply provided	Standard	
Supply Voltage (V _{DD}):	+12.0V (±0.5V)	Standard	N
	+15.0V (±0.5V)	Optional	Р
	+18.0V (±0.5V)	Optional	R
Power consumption:	5W max at switch on	Standard	130.7
	1.2W typ (stabilised at 25°C)	Standard	
Warm up:	< ±1×10 ⁻⁸ after 10mins at +20°C		
Phase noise (@10MHz):	< -125dBc/Hz @ 10Hz	Standard	
	< -135dBc/Hz @ 100Hz	Standard	
	< -150dBc/Hz @ 1kHz	Standard	
	< -155dBc/Hz @ 10kHz	Standard	
	< -155dBc/Hz @ 50kHz	Standard	
Harmonics:	< -30dB wrt carrier	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	

