



Features

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

Standard Models

The table shows the most common models. In most cases selecting one of these models will ensure the best combination of price / performance and availability.

Freq	Specification	Ageing per day	Temperature stability	Part No
5.0MHz	HCD361/DPFN	$\pm 1 \times 10^{-9}$	$\pm 2 \times 10^{-8}$ -20+70°C	MS06942
5.0MHz	HCD361/ERFN	$\pm 5 \times 10^{-10}$	$\pm 1 \times 10^{-8}$ -20+70°C	MS06944
10.0MHz	HCD361/DPFN	$\pm 1 \times 10^{-9}$	$\pm 2 \times 10^{-8}$ -20+70°C	MS06941
10.0MHz	HCD361/ERFN	$\pm 5 \times 10^{-10}$	$\pm 1 \times 10^{-8}$ -20+70°C	MS06943

Specifications

Parameters	Product	Option Codes	
	HCD361		
Frequency range:	5.0 ~ 20.0MHz	■	
Ageing per day (at despatch):	$< \pm 1 \times 10^{-9}$ $< \pm 5 \times 10^{-10}$ $< \pm 2 \times 10^{-10}$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	D E F
Frequency stability:	$< \pm 5 \times 10^{-8}$ per year $< \pm 1 \times 10^{-9}$ per 10% change in V_{DD}	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Short term stability:	$< \pm 1 \times 10^{-11}$ over 1 sec	■	
Temperature stability:	$< \pm 2 \times 10^{-8}$ $< \pm 1 \times 10^{-8}$ $< \pm 5 \times 10^{-9}$	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	P R S
Operating temperature range:	0 to +50°C -10 to +60°C -20 to +70°C	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	A C F
Storage temperature range:	-40 to +90°C	■	
Output waveform:	HCMOS / TTL compatible	■	
Frequency adjustment:	$\pm 5 \times 10^{-7}$ (typ) over +0.5 to +7.0V (sufficient for 10 years ageing min) Stabilised +7.0V supply provided	■	
Supply voltage (V_{DD}):	+12V ($\pm 0.5V$) +15V ($\pm 0.5V$) +18V ($\pm 0.5V$)	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N P R
Power consumption:	5.0W max at switch on 1.2W typ when stabilised at 25°C	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Warm up:	$< \pm 1 \times 10^{-8}$ after 10mins at +20°C	■	
Phase noise (@ 10.0MHz):	< -125 dBc/Hz @ 10Hz < -135 dBc/Hz @ 100Hz < -150 dBc/Hz @ 1kHz < -155 dBc/Hz @ 10kHz < -155 dBc/Hz @ 50kHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <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: **HCD361/DPFN 10.0MHz**
HCD361/ERFN 5.0MHz

Option code X (eg HCD361/X) denotes a custom specification.