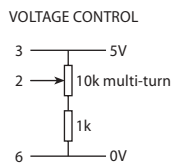


PIN	CONNECTION
1	Case
2	Freq Adjustment
3	Osc supply +5V
4	RF output
5	Oven supply
6	Ground



Scale 1:1

### Features

- HCMOS / TTL compatible output**
- Low profile package**
- Separate oven & oscillator supplies**
- Custom options available**

### Standard Models

Freq	Specification	Ageing per day	Temperature stability	Part No
5.0MHz	HCD81/ALDN	$\pm 1 \times 10^{-8}$	$\pm 2 \times 10^{-7}$ -20+60°C	MA05205
10.0MHz	HCD81/ALDN	$\pm 1 \times 10^{-8}$	$\pm 2 \times 10^{-7}$ -20+60°C	MA05206

### Specifications

Parameters	Product	Option Codes
	HCD81	
<b>Frequency range:</b> 5.0 ~ 16.0MHz	■	
<b>Ageing per day (at despatch):</b> $< \pm 1 \times 10^{-8}$	■	A
<b>Frequency stability:</b> $< \pm 7.5 \times 10^{-7}$ per year $< \pm 1 \times 10^{-7}$ per 5% change in $V_{DD}$	■ ■	
<b>Temperature stability:</b> $< \pm 2 \times 10^{-7}$ $< \pm 1 \times 10^{-7}$	■ □	L M
<b>Operating temperature range:</b> 0 to +50°C -20 to +60°C -20 to +70°C	□ ■ □	A D F
<b>Storage temperature range:</b> -40 to +90°C	■	
<b>Output waveform:</b> HCMOS / TTL compatible	■	
<b>Frequency adjustment:</b> $\pm 2 \times 10^{-5}$ typ, +0.5 to +5.0V (sufficient for 10 years ageing min)	■	
<b>Oscillator supply voltage (<math>V_{DD}</math>):</b> +5.0V ( $\pm 0.5$ V)	■	
<b>Oven supply voltage:</b> +12V ( $\pm 0.5$ V) Other options from 9~30V	■ □	N specify
<b>Oscillator power consumption:</b> 40mA max	■	
<b>Oven power consumption:</b> 4.5W max at switch on 1.2W typ when stabilised at 25°C	■ ■	
<b>Warm up:</b> $< \pm 5 \times 10^{-8}$ after 10mins at +25°C	■	
<b>Phase noise (@ 10.0MHz):</b> $< -110$ dBc/Hz @ 10Hz $< -130$ dBc/Hz @ 100Hz $< -145$ dBc/Hz @ 1kHz $< -150$ dBc/Hz @ 10kHz	■ ■ ■ ■	
<b>Shock:</b> IEC 68-2-27 Test Ea 50G for 11ms	■	
<b>Vibration:</b> 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: **HCD81/ALDN 5.0MHz**  
**HCD81/AMAN 10.0MHz**

Option code X (eg HCD81/X) denotes a custom specification.