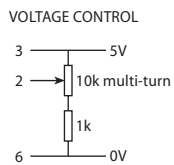


PIN	CONNECTION
1	Case
2	Freq Adjustment
3	Osc supply +5V
4	RF output
5	Oven supply
6	Ground



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

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