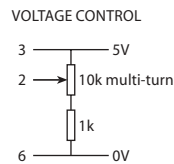


PIN	CONNECTION
1	Case
2	Freq Adjustment
3	Osc supply +5V
4	RF output
5	Oven supply
6	Ground



Scale 1:1

Features

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

Specifications

Parameters	Product	Option Codes
	HCD81	
Frequency range: 5.0 ~ 16.0MHz	■	
Frequency stability: $\pm 1 \times 10^{-8}$ / day at despatch $\pm 7.5 \times 10^{-7}$ / year max $\pm 1 \times 10^{-7}$ per 5% change in V_{DD}	■ ■ ■	
Temperature stability: $\pm 2 \times 10^{-7}$ over -20 to +60°C	■	
Operating temperature range: -20 to +60°C Other options available	■ □	specify
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: +12.0V (± 0.5 V) 9, 10, 12, 15, 20 or 24V	■ □	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

Product name + frequency
 eg: **HCD81 5.0MHz**
 Option code X (eg HCD81/X) denotes a custom specification.