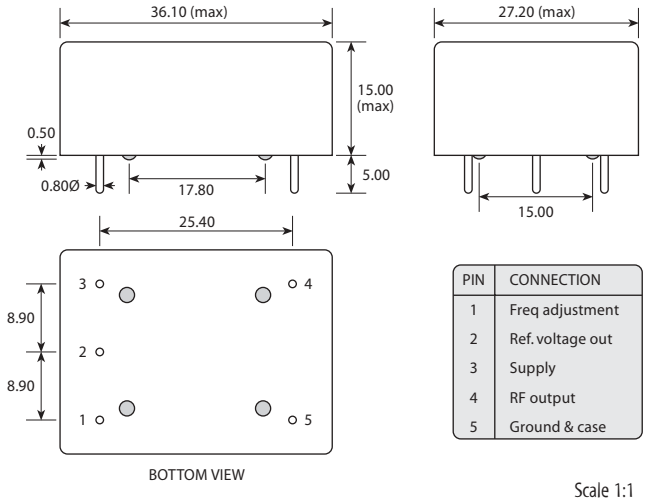
5V OCXO HCMOS Low Profile

HCD331



PIN	CONNECTION
1	Freq adjustment
2	Ref. voltage out
3	Supply
4	RF output
5	Ground & case

Scale 1:1

Features

- **Temperature stability down to 20ppb**
- **Single 5V oven & oscillator supply**
- **Low height compact package**
- **Standard European IEC CO-08 pin-out**
- **Custom options available**

Standard Models

Freq	Specification	Ageing per day	Temperature stability	Part No
16.3840MHz	HCD331/BNDL	±5x10^{-9}	±5x10^{-8} -20+60°C	MA05207
19.440MHz	HCD331/BNDL	±5x10^{-9}	±5x10^{-8} -20+60°C	MA05208

Specifications

Parameters	Product HCD331	Option Codes
Frequency range: 13.0 ~ 20.0MHz	■	
Ageing per day (at despatch):		
< ±1x10^{-8}	□	A
< ±5x10^{-9}	■	B
< ±3x10^{-9}	□	C
Frequency stability:		
< ±3x10^{-7} per year	■	
< ±5x10^{-8} per 10% change in V_{DD}	■	
Temperature stability: < ±1x10^{-7}	□	M
< ±5x10^{-8}	■	N
< ±2x10^{-8}	□	P
Operating temperature range:		
0 to +50°C	□	A
-20 to +60°C	■	D
-20 to +70°C	□	F
Storage temperature range: -40 to +90°C	■	
Output waveform: 50pF HCMOS, 45:55 duty	■	
Frequency adjustment: ±1x10^{-5} (typ) over +0.5 to +4.0V (sufficient for 15 years ageing min) Stabilised +4.0V supply provided	■	
Supply voltage (V_{DD}): +5.0V (±0.25V)	■	L
Power consumption:		
4.5W max at switch on	■	
1.0W typ when stabilised at 25°C	■	
Warm up: < ±5x10^{-8} after 10mins at +25°C	■	
Phase noise (@ 10.0MHz):		
< -100dBc/Hz @ 10Hz	■	
< -120dBc/Hz @ 100Hz	■	
< -135dBc/Hz @ 1kHz	■	
< -150dBc/Hz @ 10kHz	■	
< -150dBc/Hz @ 50kHz	■	
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: **HCD331/BNDL 16.3840MHz**
HCD331/CMAL 19.440MHz
Option code X (eg HCD331/X) denotes a custom specification.

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