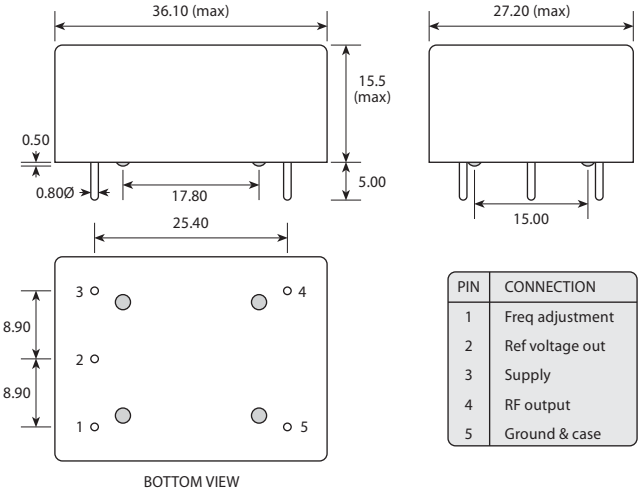
OCXO Sine Output

HCD370



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

Specifications

Parameters	***Product*** ***HCD370***	***Option Codes***
Frequency range: 5.0 ~ 20.0MHz	■	
Ageing per day (at despatch):		
< $\pm 1 \times 10^{-9}$	□	D
< $\pm 5 \times 10^{-10}$	■	E
< $\pm 2 \times 10^{-10}$	□	F
Frequency stability:		
< $\pm 5 \times 10^{-8}$ per year	■	
< $\pm 1 \times 10^{-9}$ per 10% change in V_{DD}	■	
Short term stability:		
< $\pm 1 \times 10^{-11}$ over 1 sec	■	
Temperature stability: < $\pm 2 \times 10^{-8}$	□	P
< $\pm 1 \times 10^{-8}$	■	R
< $\pm 5 \times 10^{-9}$	□	S
Operating temperature range:		
0 to +50C	□	A
-10 to +60C	□	C
-20 to +70C	■	F
-40 to +70C	□	G
Storage temperature range:		
-40 to +90C	■	
Output waveform:		
Sine wave, 7dBm (±2dBm) into 50Ω	■	
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 (±0.5V)	■	N
+15V (±0.5V)	□	P
+18V (±0.5V)	□	R
Power consumption:		
5.0W max at switch on	■	
1.2W typ when stabilised at 25C	■	
Warm up:		
< $\pm 1 \times 10^{-8}$ after 10mins at +20C	■	
Phase noise (@ 10.0MHz):		
< -125 dBc/Hz @ 10Hz	■	
< -135 dBc/Hz @ 100Hz	■	
< -150 dBc/Hz @ 1kHz	■	
< -155 dBc/Hz @ 10kHz	■	
< -155 dBc/Hz @ 50kHz	■	
Harmonics: < -30dB 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: ***HCD370/DPFN 10.0MHz***
HCD370/ERFN 5.0MHz
Option code X (eg HCD370/X) denotes a custom specification.

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