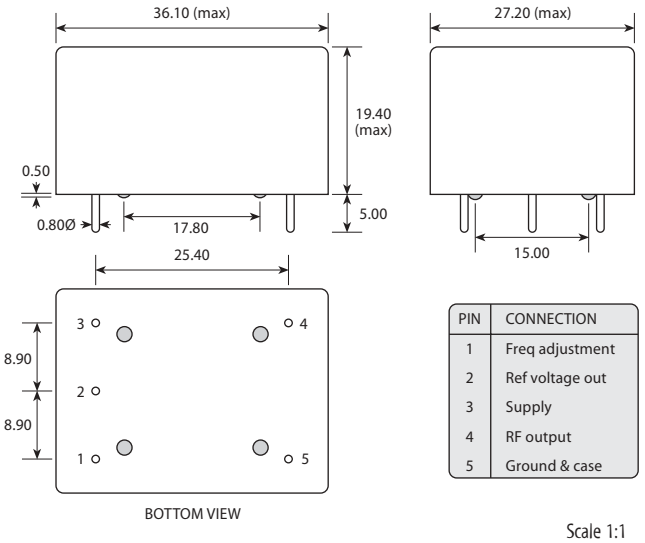
OCXO Sine Output

HCD360



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**

Standard Models

The table shows the most common models. In most cases selecting one of these models will ensure the best combination of price / performance and availability.

Freq	Specification	Ageing per day	Temperature stability	Part No
5.0MHz	HCD360/DPFN	$\pm1x10^{-9}$	$\pm2x10^{-8}$ -20+70°C	MS06935
5.0MHz	HCD360/ERFN	$\pm5x10^{-10}$	$\pm1x10^{-8}$ -20+70°C	MS06936
10.0MHz	HCD360/DPFN	$\pm1x10^{-9}$	$\pm2x10^{-8}$ -20+70°C	MS06933
10.0MHz	HCD360/ERFN	$\pm5x10^{-10}$	$\pm1x10^{-8}$ -20+70°C	MS06522

Specifications

Parameters	Product HCD360	Option Codes
Frequency range: 5.0 ~ 20.0MHz	■	
Ageing per day (at despatch):		
$< \pm1x10^{-9}$	□	D
$< \pm5x10^{-10}$	■	E
$< \pm2x10^{-10}$	□	F
Frequency stability:		
$< \pm5x10^{-8}$ per year	■	
$< \pm1x10^{-9}$ per 10% change in V_{DD}	■	
Short term stability:		
$< \pm1x10^{-11}$ over 1 sec	■	
Temperature stability: $< \pm2x10^{-8}$	□	P
$< \pm1x10^{-8}$	■	R
$< \pm5x10^{-9}$	□	S
Operating temperature range:		
0 to +50°C	□	A
-10 to +60°C	□	C
-20 to +70°C	■	F
-40 to +70°C	□	G
Storage temperature range:		
-40 to +90°C	■	
Output waveform:		
Sine wave, 7dBm (±2dBm) into 50Ω	■	
Frequency adjustment:		
$\pm5x10^{-7}$ (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 25°C	■	
Warm up:		
$< \pm1x10^{-8}$ after 10mins at +20°C	■	
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: **HCD360/DPFN 10.0MHz**
HCD360/ERFN 5.0MHz
Option code X (eg HCD360/X) denotes a custom specification.

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