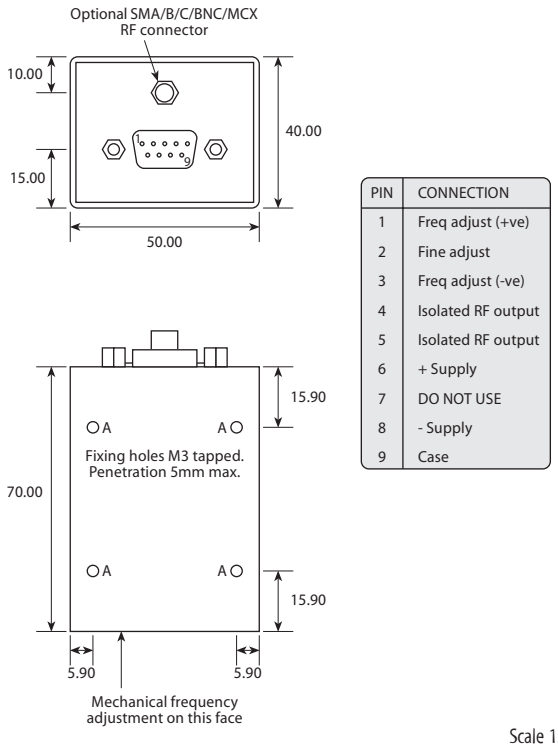
OCXO Sine Output

HCD210



PIN	CONNECTION
1	Freq adjust (+ve)
2	Fine adjust
3	Freq adjust (-ve)
4	Isolated RF output
5	Isolated RF output
6	+ Supply
7	DO NOT USE
8	- Supply
9	Case

Scale 1:2

Features

- **Frequencies up to 100MHz**
- **Internal multiplier above 50.0MHz**
- **Single oven & oscillator supply**
- **12V supply standard, 15V or 18V optional**
- **Custom options available**

Specifications

Parameters	Product HCD210	Option Codes
Frequency range: 5.0 ~ 100.0MHz	■	
Ageing per day (at despatch):		
< $\pm 1 \times 10^{-8}$	□	A
< $\pm 5 \times 10^{-9}$	■	B
Frequency stability:		
< $\pm 5 \times 10^{-7}$ per year	■	
< $\pm 1 \times 10^{-7}$ per 5% change in V_{DD}	■	
< $\pm 5 \times 10^{-10}$ per 10% change in load	■	
Short term stability:		
< $\pm 5 \times 10^{-12}$ over 1 sec (5.0MHz)	■	
< $\pm 1 \times 10^{-11}$ over 1 sec (10.0MHz)	■	
Temperature stability: < $\pm 1 \times 10^{-7}$	□	M
< $\pm 5 \times 10^{-8}$	■	N
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:		
Sine wave, 1.5V p-p ±0.5V into 50Ω	■	
Frequency adjustment:		
$\pm 2 \times 10^{-6}$ (typ) over +0.5 to +6.0V (sufficient for 10 years ageing min) Stabilised +6.0V supply provided	■	
Mechanical $\pm 5 \times 10^{-7}$	■	
Supply voltage (V_{DD}):		
+12V (±0.5V)	■	N
+15V (±0.5V)	□	P
+18V (±0.5V)	□	R
Power consumption:		
4.5W max at switch on	■	
1.0W 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	■	
< -150 dBc/Hz @ 50kHz	■	
External connectors: D9	■	D
D9 + single SMA	□	A
D9 + single SMB	□	B
Other (single SMC/BNC/MCX)	□	specify
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

Product name + option codes (if any) + frequency
eg: **HCD210 10.0MHz**
Option code X (eg HCD210/X) denotes a custom specification.

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