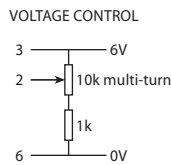


PIN	CONNECTION
1	Case
2	Freq Adjustment
3	+6V output
4	RF output
5	Supply
6	Ground



Features

- ▶ Low profile package
- ▶ Wide frequency range
- ▶ Single 12V supply (10V ~ 30V optional)
- ▶ Custom options available

Standard Models

Freq	Specification	Ageing per day	Temperature stability	Part No
5.0MHz	HCD170/BNDN	$\pm 5 \times 10^{-9}$	$\pm 5 \times 10^{-8}$ -20+60°C	MS08226
10.0MHz	HCD170/BNDN	$\pm 5 \times 10^{-9}$	$\pm 5 \times 10^{-8}$ -20+60°C	MA05201

Specifications

Parameters	Product	Option Codes
	HCD170	
Frequency range:	5.0 ~ 60.0MHz	■
Ageing per day (at despatch):	$< \pm 1 \times 10^{-8}$ $< \pm 5 \times 10^{-9}$	□ ■ A B
Frequency stability:	$\pm 5 \times 10^{-7}$ / year max $\pm 1 \times 10^{-7}$ per 5% change in V_{DD}	■ ■
Temperature stability:	$< \pm 2 \times 10^{-7}$ $< \pm 1 \times 10^{-7}$ $< \pm 5 \times 10^{-8}$	□ □ ■ L M N
Operating temperature range:	0 to +50°C -20 to +60°C -20 to +70°C	□ ■ □ A D F
Storage temperature range:	-40 to +90°C	■
Output waveform:	Sine wave, 1.5V p-p $\pm 0.5V$ into 50Ω	■
Frequency adjustment:	$\pm 2 \times 10^{-5}$ typ (10MHz), +0.5 to +6.0V (sufficient for 10 years ageing min) Stabilised +6.0V supply provided	■
Supply voltage (V_{DD}):	+12.0V ($\pm 0.5V$) Other options from 10~30V	■ □ N specify
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):	$< -110\text{dBc/Hz}$ @ 10Hz $< -130\text{dBc/Hz}$ @ 100Hz $< -145\text{dBc/Hz}$ @ 1kHz $< -150\text{dBc/Hz}$ @ 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

Part No, or product name + option codes + frequency
eg: **HCD170/ALDN 10.0MHz**

HCD170/BNDN 16.3840MHz

Option code X (eg HCD170/X) denotes a custom specification.