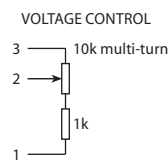





PIN	CONNECTION
1	Ground
2	Freq adjustment
3	Ref voltage out
4	Supply
5	RF output



Scale 1:1

Features

-  **Fast warm up**
-  **Temperature stability down to 3ppb**
-  **Single 12V supply (12V ~ 30V optional)**
-  **Standard European pin-out**
-  **Custom options available**

Standard Models

Freq	Specification	Ageing per day	Temperature stability	Part No
5.0MHz	HCD666/FTFN	$\pm 2 \times 10^{-10}$	$\pm 3 \times 10^{-9}$ -20+70°C	MS06951
10.0MHz	HCD666/FTFN	$\pm 2 \times 10^{-10}$	$\pm 3 \times 10^{-9}$ -20+70°C	MS06950

Specifications

Parameters	Product	Option Codes
	HCD666	
Frequency range: 5.0 ~ 20.0MHz	<input checked="" type="checkbox"/>	
Ageing per day (at despatch): $< \pm 1 \times 10^{-9}$ $< \pm 5 \times 10^{-10}$ $< \pm 2 \times 10^{-10}$	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	D E F
Frequency stability: $< \pm 2 \times 10^{-8}$ per year $< \pm 1 \times 10^{-9}$ per 10% change in V_{DD} $< \pm 5 \times 10^{-10}$ per 10% change in load	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Short term stability: $< \pm 5 \times 10^{-12}$ over 1 sec	<input checked="" type="checkbox"/>	
Temperature stability: $< \pm 1 \times 10^{-8}$ $< \pm 5 \times 10^{-9}$ $< \pm 3 \times 10^{-9}$	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	R S T
Operating temperature range: 0 to +50°C -10 to +60°C -20 to +70°C -40 to +70°C	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	A C F G
Storage temperature range: -40 to +90°C	<input checked="" type="checkbox"/>	
Output waveform: HCMOS / TTL compatible	<input checked="" type="checkbox"/>	
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	<input checked="" type="checkbox"/>	
Supply voltage (V_{DD}): +12V (± 0.5 V) +15V (± 0.5 V) Other options from 12~30V	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	N P specify
Power consumption: 10.0W max at switch on 1.3W typ when stabilised at 25°C	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Warm up: $< \pm 1 \times 10^{-8}$ after 2.25mins at +25°C	<input checked="" type="checkbox"/>	
Phase noise (@ 10.0MHz): < -130 dBc/Hz @ 10Hz < -140 dBc/Hz @ 100Hz < -155 dBc/Hz @ 1kHz < -158 dBc/Hz @ 10kHz < -160 dBc/Hz @ 50kHz	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Harmonics: < -30 dB wrt carrier	<input checked="" type="checkbox"/>	
Shock: IEC 68-2-27 Test Ea 50G for 11ms	<input checked="" type="checkbox"/>	
Vibration: IEC 68-2-06 Test Fc 10-55Hz, 1.5mm. 55-500Hz, 10G	<input checked="" type="checkbox"/>	

Standard. Optional - Please specify required code(s) when ordering

Ordering Information

Part No, or product name + option codes + frequency
 eg: **HCD666/FTFN 10.0MHz**

HCD666/FRGN 5.0MHz

Option code X (eg HCD666/X) denotes a custom specification.