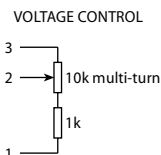







PIN	CONNECTION
1	Ground
2	Freq adjustment
3	Ref voltage out
4	Supply
5	RF output



Scale 1:1

Features

-  **Fast warm up**
-  **Standard European pin-out**
-  **High performance**
-  **SC cut overtone crystal**
-  **Custom options available**

Ordering Information

Product name + option codes (if any) + frequency

eg: **HCD665SC 10.0MHz**

HCD666SC 5.0MHz

Option code X (eg HCD665SC/X) denotes a custom spec.

Specifications

HCD665SC: Sine wave output

HCD666SC: HCMOS / TTL output

Parameters	Product		Option Codes
	665SC	666SC	
Frequency range: 4.0 ~ 16.0MHz (5.0 & 10.0MHz are standard)	■	■	
Frequency stability: ±2x10 ⁻¹⁰ / day at despatch ±2x10 ⁻⁸ / year max ±1x10 ⁻⁹ per 10% change in V _{DD} ±5x10 ⁻¹⁰ per 10% change in load	■	■	
Short term stability (1 sec): ±5x10 ⁻¹² (5.0MHz) ±1x10 ⁻¹¹ (10.0MHz)	■	■	
Temperature stability: ±3x10 ⁻⁹ over -20 to +70°C	■	■	
Operating temperature range: -20 to +70°C Other options from -40°C	■	■	specify
Storage temperature range: -40 to +90°C	■	■	
Output waveform: Sine wave, 7dBm (±1dBm) into 50Ω Other options to +13dBm into 50Ω HCMOS / TTL compatible	■	■	specify
Frequency adjustment: ±5x10 ⁻⁷ typ, +0.5 to +7.0V (sufficient for 10 years ageing min) Stabilised +7.0V supply provided	■	■	
Supply voltage (V_{DD}): +12.0V (±0.5V) Other options from 12~30V	■	■	specify
Power consumption: 10.0W max at switch on 1.3W typ when stabilised at 25°C	■	■	
Warm up: ±1x10 ⁻⁸ after 4.5mins at -20°C ±1x10 ⁻⁸ after 2.25mins at +25°C	■	■	
Phase noise (@ 10.0MHz): < -130dBc/Hz @ 10Hz < -145dBc/Hz @ 100Hz < -155dBc/Hz @ 1kHz < -158dBc/Hz @ 10kHz < -160dBc/Hz @ 50kHz	■	■	
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