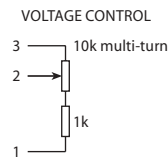


PIN	CONNECTION
1	Ground
2	Freq adjustment
3	Ref voltage out
4	Supply
5	RF output



Scale 1:1

## Features

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

## Specifications

**HCD665SC: Sine wave output**

**HCD666SC: HCMOS / TTL output**

Parameters	Product		Option Codes
	665SC	666SC	
<b>Frequency range:</b> 5.0 ~ 20.0MHz (5.0 & 10.0MHz are standard)	■	■	
<b>Frequency stability:</b> ±2x10 <sup>-10</sup> / day at despatch ±2x10 <sup>-8</sup> / year max ±1x10 <sup>-9</sup> per 10% change in V <sub>DD</sub> ±5x10 <sup>-10</sup> per 10% change in load	■	■	
<b>Short term stability (1 sec):</b> ±5x10 <sup>-12</sup> (5.0MHz) ±1x10 <sup>-11</sup> (10.0MHz)	■	■	
<b>Temperature stability:</b> ±3x10 <sup>-9</sup> over -20 to +70°C	■	■	
<b>Operating temperature range:</b> -20 to +70°C Other options from -40°C	■	■	specify
<b>Storage temperature range:</b> -40 to +90°C	■	■	
<b>Output waveform:</b> Sine wave, 7dBm (±1dBm) into 50Ω Other options to +13dBm into 50Ω HCMOS / TTL compatible	■	■	specify
<b>Frequency adjustment:</b> ±5x10 <sup>-7</sup> typ, +0.5 to +7.0V (sufficient for 10 years ageing min) Stabilised +7.0V supply provided	■	■	
<b>Supply voltage (V<sub>DD</sub>):</b> +12.0V (±0.5V) Other options from 12~30V	■	■	specify
<b>Power consumption:</b> 10.0W max at switch on 1.3W typ when stabilised at 25°C	■	■	
<b>Warm up:</b> ±1x10 <sup>-8</sup> after 4.5mins at -20°C ±1x10 <sup>-8</sup> after 2.25mins at +25°C	■	■	
<b>Phase noise (@ 10.0MHz):</b> < -130dBc/Hz @ 10Hz < -145dBc/Hz @ 100Hz < -155dBc/Hz @ 1kHz < -158dBc/Hz @ 10kHz < -160dBc/Hz @ 50kHz	■	■	
<b>Shock:</b> IEC 68-2-27 Test Ea 50G for 11ms	■	■	
<b>Vibration:</b> 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: **HCD665SC 10.0MHz**

**HCD666SC 5.0MHz**

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