

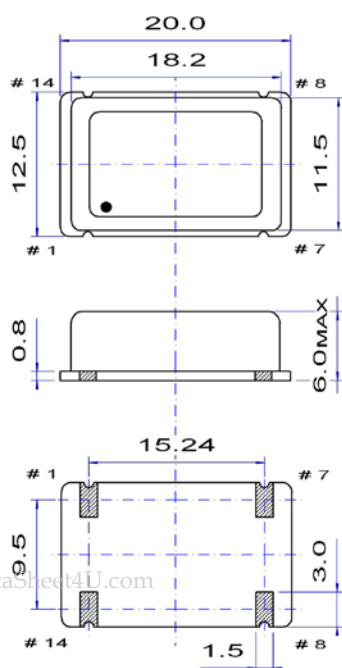
SMD Clock Oscillator HCMOS



Features

- Applications: 10 Gigabit Ethernet, switching system and telecom infrastructure
- Output frequency up to 200 MHz
- Low Phase Noise
- Low Jitter < 0.3 ps.

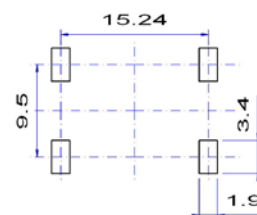
Parameter	Specification	
	MCO-SK-3H-4p	MCO-SK-5H-4p
Frequency range	10 ~ 200 MHz	
Supply voltage	+3.3 V $\pm$ 5 %	+5.0 V $\pm$ 5 %
Supply current	7 ~ 45 mA	5 ~ 35 mA
Frequency stability (*)	$\pm$ 20 ppm $\pm$ 50 ppm	-20 ~ +70 °C -40 ~ +85 °C
Output signal	HCMOS	
Output level	$V_{OH} \geq 0.9 V_{dc}$	$V_{OL} \leq 0.1 V_{dc}$
Output load	15 pF	(25 ~ 50 pF on request)
Jitter (rms)	< 0.3 ps @ 12 kHz ~ 20 MHz from carrier frequency	
Symmetry	45 ~ 55 %	@ ½ Vdc
Rise / Fall time	1 ns	
Enable / Disable function	pin #1 = high or open pin #1 = low	pin #8 ➡ (E) enable pin #8 ➡ (D) disabled to Hi-Z
Operating temperature range	-20 ~ +70 °C -40 ~ +85 °C	commercial application industrial application
Storage temperature range	-55 ~ +125 °C	
Packaging units	tape & reel	500 pieces
(*) All inclusive: frequency stability, tolerance, aging, supply & load variation		
Customer specifications on request		



Pin function

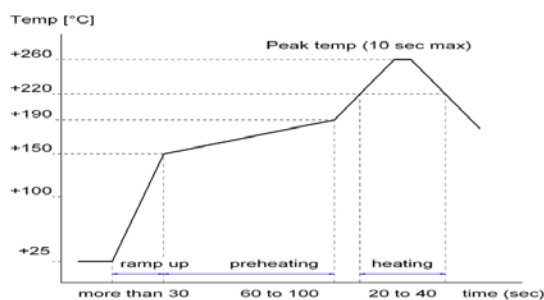
- ```
1 E/D or not connected
7 GND
8 Output
14 Vdc
```

### Example for solder pattern



*Do not design any conductive path between the pattern*

### Example for IR reflow soldering temperature



**2002/95/EC RoHS compliant**

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03 May. 10

