MCO-1S

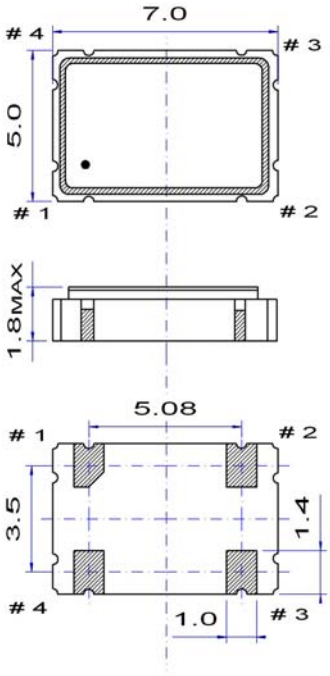
SMD Clock Oscillator
HCMOS / TTL

QuartzCom
the communications company

Features

- Applications: telecommunications, instrumentation, automotive
- Output frequency up to 200 MHz
- Low phase jitter < 1.0 ps
- Highly shock and vibration resistant

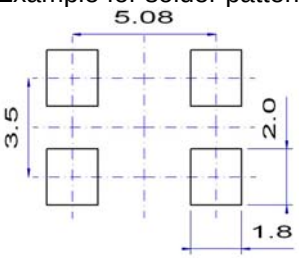
Parameter		Specification			
		MCO-1S18	MCO-1S25	MCO-1S3	MCO-1S5
Frequency range		12 kHz ~ 200 MHz			0.012 ~ 110 MHz
Standard frequencies		11.0592, 20, 25.0, 40.0, 44.0, 80.0, 106.25 & 125 MHz			20, 40 & 80 MHz
Supply voltage		+1.8 V ±5 %	+2.5 V ±5 %	+3.3 V ±10 %	+5.0 V ±10 %
Supply current	0.03 ~ 70 MHz	< 20 mA	< 25 mA	< 30 mA	< 35 mA
	71 ~ 125 MHz	< 25 mA	< 30 mA	< 35 mA	< 40 mA
	126 ~ 200 MHz	< 30 mA	< 35 mA	< 45 mA	
Frequency stability (*)		±25 ~ ±50 ppm			
Output signal		HCMOS / TTL compatible			
Output level		V_{OH} ≥ 0.9 Vdc		V_{OL} ≤ 0.1 Vdc	
Output load		15 pF ~ 25 pF		15 pF ~ 50 pF	
Jitter (rms)		< 1 ps		@ 12 kHz ~ 20 MHz from carrier frequency	
Symmetry		45 ~ 55 %		@ ½ Vdc	
Rise / fall time		3 ~ 8 ns			
Tri-state function		pin #1 = high or open pin #1 = low		pin #3 ➔ signal pin #3 ➔ high impedance	
Operating temperature range		-20 ~ +70 °C -40 ~ +85 °C -55 ~ +125 °C		commercial application industrial application automotive & avionic applic.	
Storage temperature range		-55 ~ +125 °C			
Packaging units		tape & reel		500 or 1.000 pieces	
(*) All inclusive:	frequency stability vs. temperature, tolerance, aging, supply & load variation				
Customer specifications on request					



Pin function

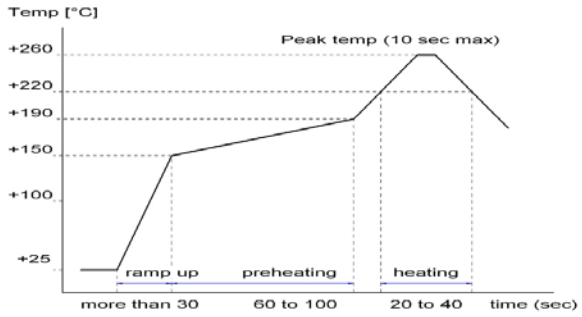
1 Tri-state
2 GND
3 Output
4 Vdc

Example for solder pattern



Do not design any conductive path between the pattern

Example for IR reflow soldering temperature



2002/95/EC RoHS compliant

20 Apr. 10

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ISO 9001
BUREAU VERITAS
Certification