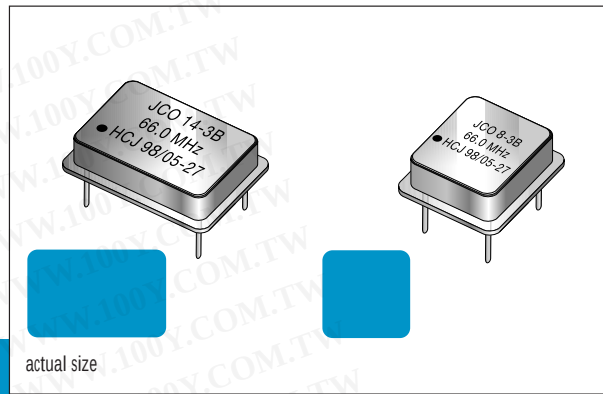


勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
 Http://www.100y.com.tw

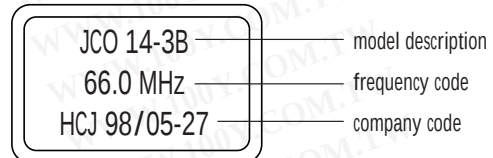


JCO - series

TTL oscillator type HCMOS-TTL compatible oscillator type

- **typical applications**
 - micro-processor clocks
- **features**
 - ultra compact metal package
 - for wave soldering
 - packed in antistatic tubes
 - HCMOS 3.3 Volt and 5.0 Volt type

example of marking



type	TTL		HCMOS (TTL compatible) 5 Volt		HCMOS (TTL compatible) 3.3 Volt	
frequency range	1.0 MHz ~ 160 MHz		1.0 MHz ~ 160 MHz		1.0 MHz ~ 160 MHz	
current consumption max.	25 mA	(3.5 MHz ~ 23.0 MHz)	15 mA	(500 kHz ~ 4.9 MHz)	10 mA	(1.0 MHz ~ 24.0 MHz)
	50 mA	(24 MHz ~ 69.0 MHz)	20 mA	(5 MHz ~ 22.9 MHz)	15 mA	(25.0 MHz ~ 40.0 MHz)
	60 mA	(70 MHz ~ 100 MHz)	30 mA	(23 MHz ~ 49.9 MHz)	22 mA	(41.0 MHz ~ 67.0 MHz)
frequency stability*	± 100 ppm (A-type)		± 100 ppm (A-type)		± 100 ppm (A-type) / ± 50 ppm (B-type)	
	± 50 ppm (B-type)		± 50 ppm (B-type)		± 25 ppm (C-type) / ± 20 ppm (D-type)	
	± 25 ppm (C-type)		± 25 ppm (C-type)		± 15 ppm (E-type) / ± 10 ppm (F-type)	
output load	10 TTL		50 pF or 10 TTL		30 pF (5 TTL) 1.0 MHz ~ 50.0 MHz 15 pF (5 TTL) 51.0 MHz ~ 80.0 MHz	
rise and fall time	6 ns max.		6 ns max. (TTL)		6 ns max.	
			10 ns max. (HCMOS)			
operating temperature	-10 °C ~ +70 °C		-10 °C ~ +70 °C		-10 °C ~ +70 °C	
storage temperature	-55 °C ~ +125 °C		-55 °C ~ +125 °C		-55 °C ~ +125 °C	
supply voltage	5 V ± 10%		5 V ± 10%		3.3 V ± 5%	
output level "low"	0.4 V max.		0.4 V max.		0.4 V max.	
output level "high"	2.4 V min.		V _{DC} - 0.5 V min.		V _{DC} - 0.5 V min.	
symmetry	60/40 % at 1.4 V		55/45 % at 1/2 V _{DC}		55/45 % at 1/2 V _{DC} (1.0 MHz ~ 50.0 MHz)	
					60/40 % at 1/2 V _{DC} (51.0 MHz ~ 80.0 MHz)	
tristate function	no (option 1) / yes (option 4)		no (option 2) / yes (option 3)		no (option 2) / yes (option 3)	
package	DIP 14	DIP 8	DIP 14	DIL 8	DIP 14	DIL 8

* frequency stability: inclusive of calibration tolerance at 25 °C, operating temperature range, input voltage change, aging, shock and vibration

order information:

1. type
2. package
3. output level
4. stability
5. frequency

example:

JCO 14 -

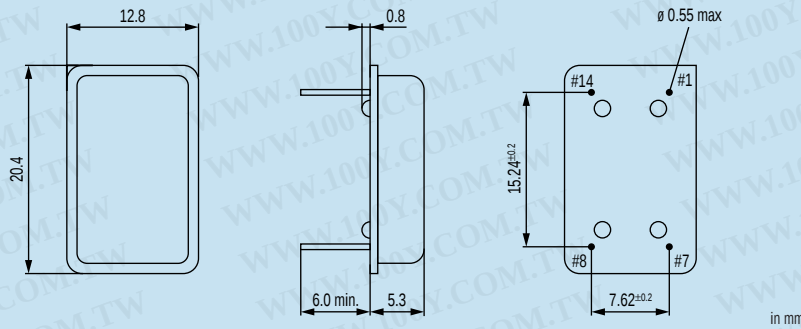
- T = special temperature range
- 3V = 3.3 Volt type
- frequency stability (A to C)
- 1 = TTL
- 2 = HCMOS without tristate function
- 3 = HCMOS with tristate function
- 4 = TTL with tristate function
- package (DIL 14 or DIL 8)
- Jauch Crystal Oscillator

temperature option:

- T1 - -40 °C ~ +85 °C (A, B type)
- T2 - -40 °C ~ +105 °C (A, B type)
- T3 - -40 °C ~ +125 °C (A, B type)
- T4 - -40 °C ~ +90 °C (A, B type)

JCO - series

DIP 14 package information



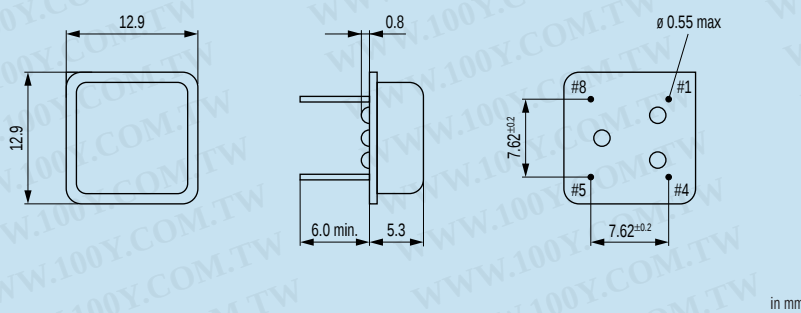
pin connection

- # 1: not connected or control
- # 7: ground
- # 8: output
- # 14: supply voltage

packed in plastic tubes,
25 pcs per tube

note: ± 10 ppm type package
height 8.0 mm

DIP 8 package information

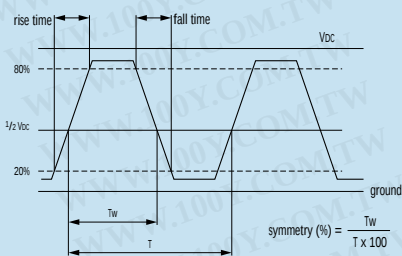


pin connection

- # 1: not connected or control
- # 4: ground
- # 5: output
- # 8: supply voltage

packed in plastic tubes,
40 pcs per tube

wave shape characteristic



tristate type

enable / disable function

control input pin 1	high or open	low level or ground
output pin 3	oscillation	high impedance

test conditions:

- a) temperature cycle:
0 °C to 25 °C to 120 °C to 25 °C (each temperature 20 minutes, 3 cycle)
- b) shock test:
1000 g, 0.5 ms, 1/2 sine wave, each plane
- c) vibration:
10 Hz ~ 82 Hz, 1.52 mm amplitude
82 Hz ~ 2000 Hz, 20 g each plane