

actual size

JCO series • 3.3 Volt

CMOS-TTL compatible oscillator type 3.3 Volt

features

- ultra compact metal package
- packed in antistatic tubes

type	CMOS (TTL compatible)
frequency range* ¹⁾	1.0 MHz ~ 125.0 MHz
current consumption max.	10 mA (1.0 MHz ~ 29.9 MHz)
	15 mA (30.0 MHz ~ 59.9 MHz)
	20 mA (60.0 MHz ~ 89.9 MHz)
	30 mA (90.0 MHz ~ 125.0 MHz)
frequency stability* ²⁾	± 100 ppm (A-type) / ± 50 ppm (B-type) / ± 25 ppm (C-type)
	on request: ± 20 ppm (D-type) / ± 15 ppm (E-type) / ± 10 ppm (F-type)
output load	30 pF (5 TTL) 1.0 MHz ~ 49.9 MHz
	15 pF (2 TTL) 50.0 MHz ~ 125.0 MHz
rise and fall time	6 ns max.
operating temperature	-10 °C ~ +70 °C
storage temperature	-55 °C ~ +125 °C
supply voltage	3.3 V ± 10%
output level "low" max.	0.4 V
output level "high" min.	V _{DC} - 0.5 V
symmetry	55/45 % at 1/2 V _{DC}
tristate function	yes

*¹⁾ frequency range from 500 kHz ~ 1.0 MHz on request

*²⁾ frequency stability: inclusive of calibration tolerance at 25 °C, operating temperature range, input voltage change, aging, shock and vibration

order information example:

O - 66.0 - JCO14 - 3 - B - 3.3V - T1

1. 2. 3. 4. 5. 6. 7.

- oscillator: O
- frequency: 66.0 MHz
- type: JCO14 = DIP14 or JCO8 = DIP8
- output logic: 3 = CMOS tristate or 2 = CMOS
- frequency stability: ± 100 ppm (A-type) / ± 50 ppm (B-type)
± 25 ppm (C-type) / ± 20 ppm (D-type)
± 15 ppm (E-type) / ± 10 ppm (F-type)
- supply voltage: 3.3 Volt
- special requirement: -40 °C ~ +85 °C (see temperature option table)

marking:

- line = type
- line = frequency
- line = company code / date code / internal code

temperature options for A and B type only:

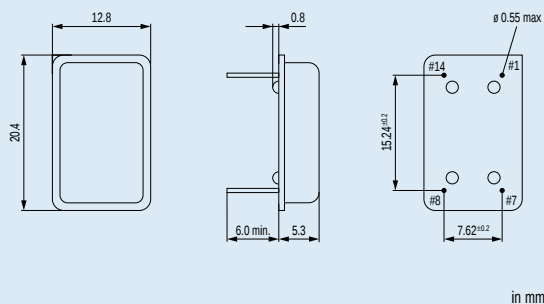
- T1 - -40 °C ~ +85 °C
- T3 - -40 °C ~ +125 °C
- T2 - -40 °C ~ +105 °C
- T4 - -40 °C ~ +90 °C

enable / disable function (e/d)

- | | |
|--------------------------|--|
| control input # 1 | output # 5 (DIP8) or output # 8 (DIP14) |
| open or high | active |
| low or ground | high impedance |

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DIP 14 package information



Terminals JCO14

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

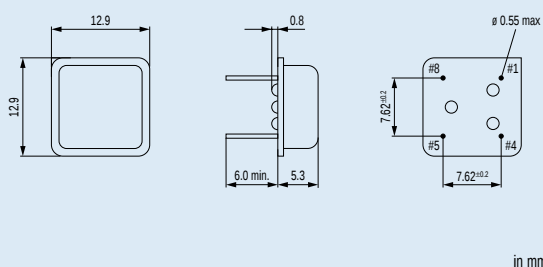
packed in plastic tubes,
25 pcs per tube

note: ± 10 ppm type package height
8.0 mm

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

DIP 8 package information



Terminals JCO8

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

packed in plastic tubes,
40 pcs per tube

note: ± 10 ppm type package height
8.0 mm

wave shape characteristic

