

Oscillator · JCO · 5.0 V

Pin Type Oscillator

- soldering temperature: 260 °C max.
- metal package



General Data

type	JCO8 / JCO14 5.0 V
frequency range	1.0 ~ 160.0 MHz (15pF max.) 1.0 ~ 40.00 MHz (15pF~50pF max.)
frequency stability over all	± 15ppm ~ ± 100ppm (table 1)
current consumption	see table 2
supply voltage V_{DC}	5.0 V ± 10%
temperature	operating: -10 °C ~ +70 °C / -40 °C ~ +85 °C storage: -55 °C ~ +125 °C
output	rise & fall time: see table 3 load max: 15pF / 50pF current max.: 16mA low level max.: +0.5 V high level min.: $V_{DC} - 0.5 V$
output enable time max.	10ms
output disable time max.	100ns
start-up time max.	10ms
standby function	optional
phase jitter 12 kHz ~ 20.0 MHz	< 1.0ps RMS
symmetry at 0.5 x V_{DC}	45% ~ 55% typ. (40% ~ 60% max.)

Table 1: Frequency Stability Code

stability code	A	B	G	C	D	E
	± 100 ppm	± 50 ppm	± 30 ppm	± 25 ppm	± 20 ppm	± 15 ppm
-10 °C ~ +70 °C	○	●	○	○	○	○
-40 °C ~ +85 °C	●	○	○	○		
● standard ○ on request						

Table 2: Current Consumption max.

Current at 15pF load:	Current at 50pF load:
1.0 ~ 29.9 MHz 15 mA	1.0 ~ 19.9 MHz 20 mA
30.0 ~ 49.9 MHz 25 mA	20.0 ~ 40.0 MHz 35 mA
50.0 ~ 89.9 MHz 40 mA	
90.0 ~ 124.9 MHz 50 mA	
125.0 ~ 160.0 MHz 60 mA	

Table 3: Rise & Fall Time max.

6.0 ns: 1.0 ~ 49.9 MHz	note: - specific data on request - rise time: 0.1 V_{DC} ~ 0.9 V_{DC} - fall time: 0.9 V_{DC} ~ 0.1 V_{DC}
5.0 ns: 50.0 ~ 79.9 MHz	
4.0 ns: 80.0 ~ 99.9 MHz	
3.0 ns: 100.0 ~ 160.0 MHz	

Dimensions JCO14 / JCO8

JCO14 	JCO8
pin connection # 1: not connected or e/d # 7: ground # 8: output #14: supply voltage	pin connection # 1: not connected or e/d # 4: ground # 5: output # 8: supply voltage

Order Information

0	frequency	type	e/d function	frequency stability	supply voltage code	option
Oscillator	1.0 ~ 160.0 MHz	JCO8 JCO14	2 = no 3 = yes/tristate	see table 1	blank = 5.0 Volt	blank = -10 °C ~ +70 °C T1 = -40 °C ~ +85 °C

Example: O 20.0-JCO8-3-A-T1 (LF = RoHS compliant / Pb free pins or pads)



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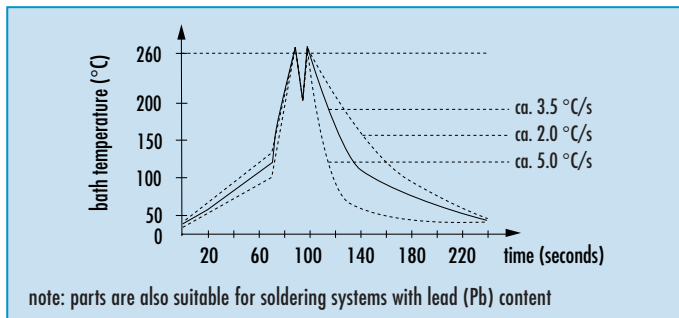
Enable / Disable Function

pin #1	pin #3
open or high	oscillation
gnd or low	high impedance

Marking

type
frequency
company code / date code

Wave Soldering Profile



Preferred Type

JC08-3-B
JC014-3-B

Packaging

JC08-3-B packed in antistatic plastic tubes, 40 pcs
JC014-3-B packed in antistatic plastic tubes, 25 pcs