

Oscillator · VCXO · 3.3 V

Voltage Control Crystal Oscillator

- pulling range up to ± 150 ppm min.
- soldering temperature: 260 °C max.
- full metal package DIP8/DIP14



General Data

type	JCO924 / JCO926 3.3 V
frequency range	1.84320 ~ 125.0 MHz (JCO924) 1.84320 ~ 40.00 MHz (JCO926)
frequency stability over all*	± 25 ppm / ± 50 ppm (table 1)
current consumption	see table 2
supply voltage V_{DC}	3.3 V $\pm 10\%$
frequency pulling range min.	± 100 ppm / ± 150 ppm*
pulling control voltage	1.65 V ± 1.65 V
pulling linearity	<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 / 30pF (< 40 MHz) current max. 8mA low level max. +0.5 V high level min. $V_{DC} - 0.5$ V
start-up time max.	10ms
symmetry at $0.5 \times V_{DC}$	45% ~ 55% typ. (40% ~ 60% max.)

* ± 150 ppm on request.

Table 1: Frequency Stability Code

stability code	B ± 50 ppm	C ± 25 ppm			
-10 °C ~ +70 °C	○	●			
-40 °C ~ +85 °C	●	○			
● standard ○ available					

* includes stability at 25 °C, operating temp. range, supply voltage change, shock and vibration, aging 1st year.

Table 2: Current Consumption max.

Current at 15pF load:		Current at 30pF load:	
1.8432 ~ 19.9 MHz	10 mA	1.8432 ~ 19.9 MHz	20 mA
20.0 ~ 39.9 MHz	20 mA	20.0 ~ 40.0 MHz	25 mA
40.0 ~ 65.9 MHz	25 mA		
66.0 ~ 79.9 MHz	30 mA		
80.0 ~ 125.0 MHz	40 mA		

Table 3: Rise & Fall Time max.

6.0 ns: 1.8432 ~ 39.9 MHz	note: - specific data on request - rise time: $0.1 V_{DC} \sim 0.9 V_{DC}$ - fall time: $0.9 V_{DC} \sim 0.1 V_{DC}$
5.0 ns: 40.0 ~ 79.9 MHz	
4.0 ns: 80.0 ~ 125.0 MHz	

Dimensions JCO924 / JCO926

JCO924		pin connection # 1: control voltage # 7: ground # 8: output # 14: supply voltage	
JCO926		pin connection # 1: control voltage # 4: ground # 5: output # 8: supply voltage	
			in mm

Order Information

0	frequency in MHz	type	pulling range in ppm	frequency stability in ppm	option
Oscillator	1.84320 ~ 125.0 MHz	JCO924 JCO926	100 = ± 100 ppm std. 150 = ± 150 ppm on request	25 = ± 25 ppm 50 = ± 50 ppm	blank = -10 °C ~ +70 °C T1 = -40 °C ~ +85 °C
Example: O 27.0-JCO924-100-25 (LF = RoHS compliant / Pb free pins or pads)					

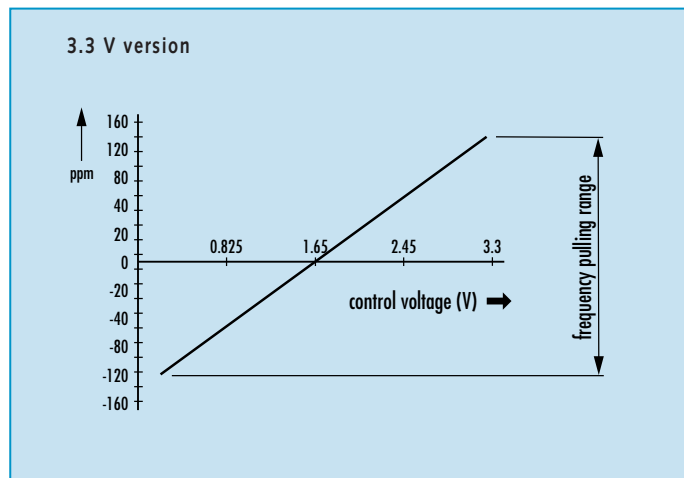


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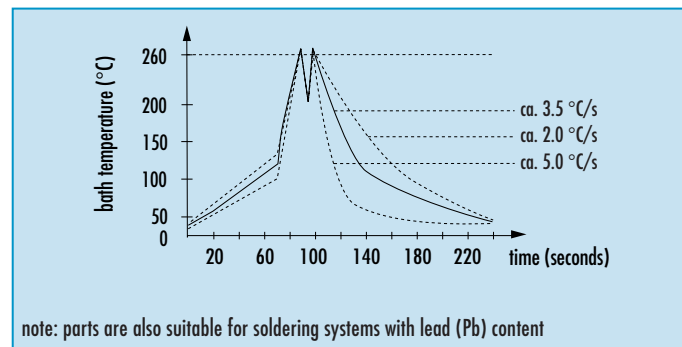
Control Voltage Characteristic



Packaging

JC0924	packed in antistatic plastic tubes, 25 pcs
JC0926	packed in antistatic plastic tubes, 40 pcs

Wave Soldering Profile



Marking

type
frequency
company code / date code