



actual size

Oscillator · VX3L · 3.3 V

Low Jitter High Frequency Crystal Oscillator

Features

■ HCMOS / TTL compatible type

■ oscillator stop function

General Data

type	VX3	
frequency range	100.0 ~ 165.0 MHz	
frequency stability over all*	± 20 ppm ~ ± 100 ppm	
current consumption	see table 1	
supply voltage	3.3 V ± 10 %	
output	rise & fall time	see table 3
	load	15 pF max.
	current max.	8 mA
	low level max.	$V_{DC} \times 0.1$
	high level min.	$V_{DC} \times 0.9$
temperature	operating	-10 °C ~ +70 °C
	extended	-40 °C ~ +85 °C
	storage	-55 °C ~ +125 °C
phase jitter 12 kHz ~ 20.0 MHz	< 1.0 ps RMS	
symmetry at 1/2 V_{DC}	40/60 % max. (45 / 55 % typical)	

* inclusive stability at 25°C, operating temperature range, input voltage change, aging, shock and vibration.

Table 1: current consumption max.

100.000 ~ 125.0 MHz	50 mA
125.001 ~ 165.0 MHz	75 mA

note:

- specific data on request

Maximum Jitter Data

- 4 ps: rms period jitter
- 30 ps: period jitter Pk - Pk
- 1 ps: phase jitter 12.0 kHz ~ 20.0 MHz

Table 2: type

type	VX3L	VX3LH	VX3LS	VX3LQ	VX3LP	
stability	± 100 ppm	± 50 ppm	± 30 ppm	± 25 ppm	± 20 ppm	
-10 °C ~ +70 °C	○	○	○	○	○	
-40 °C ~ +85 °C	○	○				
● standard ○ on request						

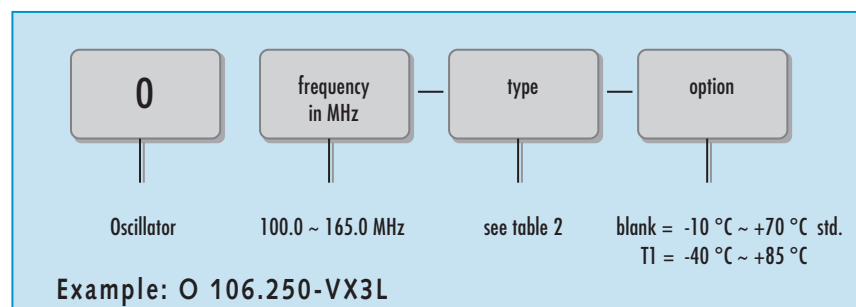
Table 3: rise & fall time max.

3.0 ns: 100.0 ~ 124.99 MHz
2.0 ns: 125.0 ~ 165.00 MHz

note:

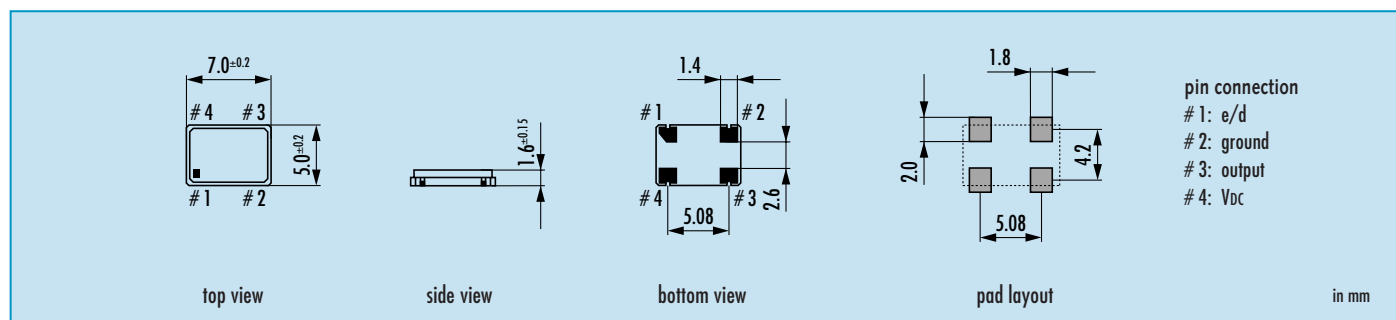
- specific data on request

Order Information

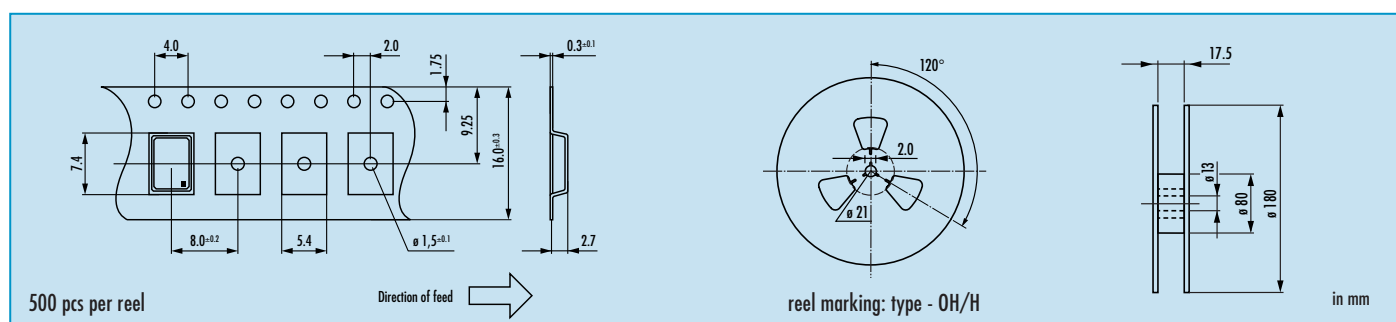


Oscillator · VX3L · 3.3 V · High Frequency

Dimensions



Taping Specification (JIS-C0806)



Enable / Disable Function

pin #1	pin #3
open or high	oscillation
gnd or low	oscillator stop

start-up time: < 10 ms
 standby current: 10 µA max.

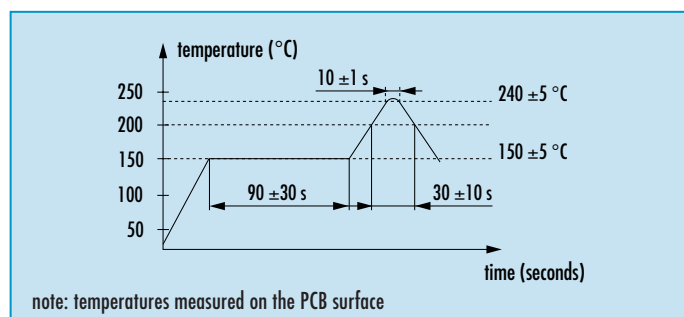
Marking

frequency
 type / date code

date code:
 A ~ M: Jan. - Dec.
 2: 2002
 3: 2003
 4: 2004

Jan.	Febr.	Mar.	Apr.	May	June
A	B	C	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	H	J	K	L	M

Reflow Soldering Profile



Packing Note

- standard packing units are 500 pieces per reel
- non-multiple packing units are only supplied taped / bulk