



actual size

Oscillator · VX3W · 3.3 V

Crystal Oscillator with Stop Function

Features

■ HCMOS / TTL compatible type

■ full ceramic package

General Data

type		VX3
frequency range		0.5 ~ 100.0 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	30 pF max.
	current max.	8 mA
	low level max.	V _{DC} × 0.1
	high level min.	V _{DC} × 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}		45 / 55 % typical

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

Table 1: current consumption max.

0.5 ~ 19.99 MHz	10 mA
20.0 ~ 49.99 MHz	20 mA
50.0 ~ 79.99 MHz	25 mA
80.0 ~ 100.0 MHz	40 mA

note:

- specific data on request

Table 2: type

type	VX3W	VX3WH	VX3WS	VX3WQ	VX3WP	
stability	± 100 ppm	± 50 ppm	± 30 ppm	± 25 ppm	± 20 ppm	
-10 °C ~ +70 °C	○	○	○	○	○	
-40 °C ~ +85 °C	○	○				
● standard ○ on request						

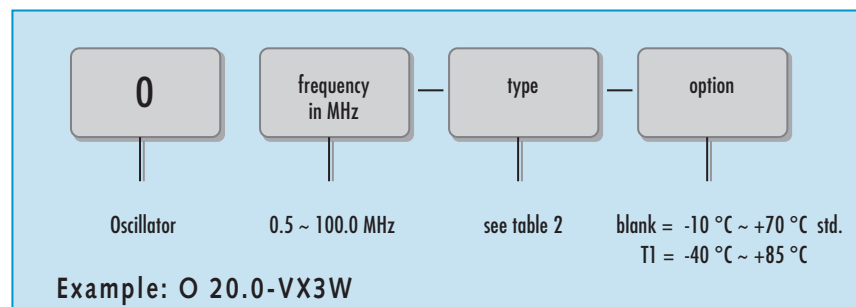
Table 3: rise & fall time max.

6.0 ns: 0.50 ~ 79.90 MHz
4.0 ns: 80.0 ~ 100.0 MHz

note:

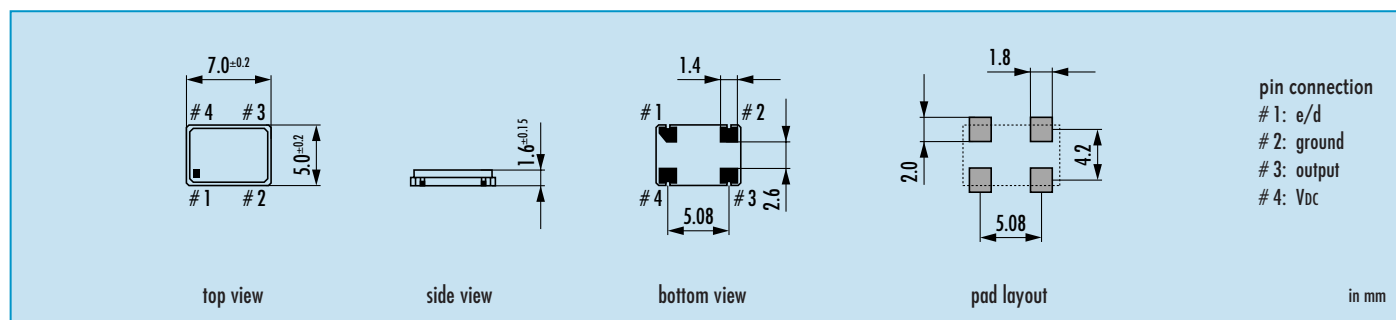
- specific data on request

Order Information

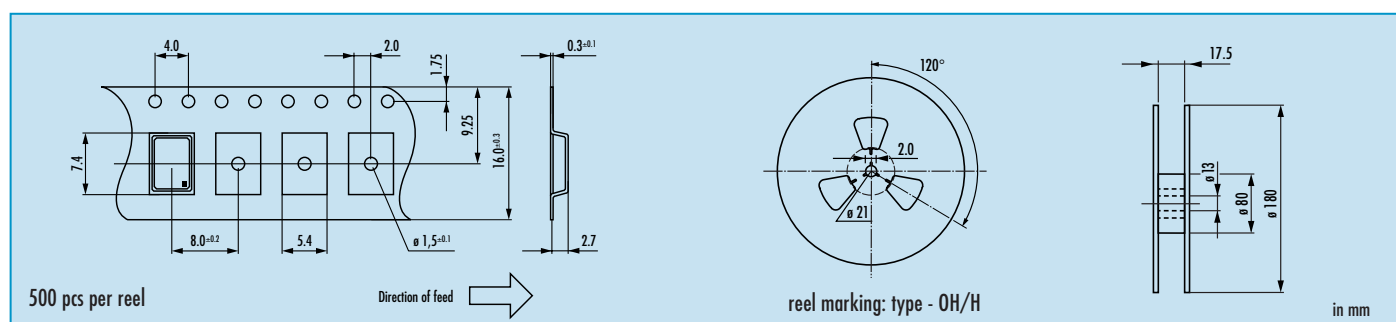


Oscillator · VX3W · 3.3 V · Stop Function

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 μ A max.

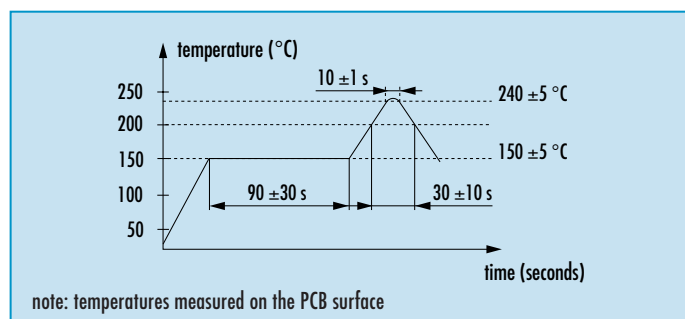
Marking

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