



查询“VX3-2.5V”供应商

actual size

Oscillator · VX3 · 2.5 V

SMD Oscillator with Stop Function · 7.0 x 5.0 mm

- preferred type for extended temperature range
- reflow soldering temperature: 260 °C max.
- full ceramic package



General Data

type	VX3 2.5 V
frequency range	0.50 ~ 125.0 MHz (15pF max.) 0.50 ~ 80.0 MHz (30pF max.)
frequency stability over all*	± 20ppm ~ ± 100ppm (table 1)
current consumption	see table 2
supply voltage V_{DC}	2.5 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 / 30pF current max.: 8mA low level max.: $0.1 \times V_{DC}$ high level min.: $0.9 \times V_{DC}$
output enable time max.	10ms
output disable time max.	100ns
start-up time max.	10ms
standby function	stop
standby current max.	3µA
phase jitter 12 kHz ~ 20.0 MHz	< 1.0ps RMS
symmetry at $0.5 \times V_{DC}$	45% ~ 55% typ. (40% ~ 60% max.)

Table 1: Type

stability	± 100 ppm		± 50 ppm		± 30 ppm		± 25 ppm		± 20 ppm	
type VX3	U	D	UH	DH	US	DS	UQ	DQ	UP	DP
output load	15 pF	30 pF	15 pF	30 pF	15 pF	30 pF	15 pF	30 pF	15 pF	30 pF
-10 °C ~ +70 °C	○	○	○	○	○	○	○	○	△	△
-40 °C ~ +85 °C	○	○	○	○	○	○	○	○		
● standard ○ available △ excludes aging										

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

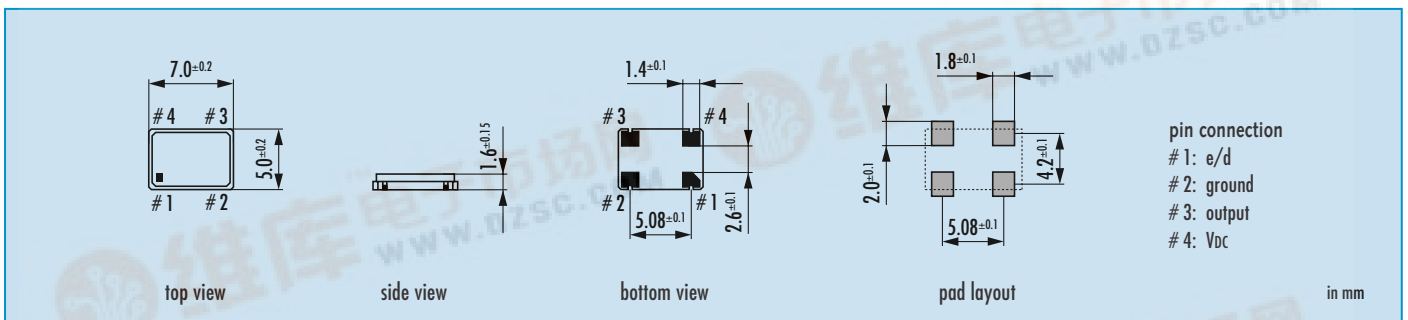
Table 2: Current Consumption max.

Current at 15pF load		Current at 30pF load	
0.5 ~ 33.9 MHz	7 mA	0.5 ~ 19.9 MHz	9 mA
34.0 ~ 49.9 MHz	11 mA	20.0 ~ 49.9 MHz	15 mA
50.0 ~ 79.9 MHz	17 mA	50.0 ~ 80.0 MHz	20 mA
80.0 ~ 125.0 MHz	30 mA		

Table 3: Rise & Fall Time max.

8.0 ns: 0.5 ~ 1.79 MHz	note: - specific data on request - rise time: $0.1 V_{DC} \sim 0.9 V_{DC}$ - fall time: $0.9 V_{DC} \sim 0.1 V_{DC}$
6.0 ns: 1.8 ~ 79.99 MHz	
5.0 ns: 80.0 ~ 99.99 MHz	
3.0 ns: 100.0 ~ 125.00 MHz	

Dimensions



Order Information

0	frequency	type	option
Oscillator	0.5 ~ 125.0 MHz	VX3U-VX3DP see table 1	blank = -10 °C ~ +70 °C T1 = -40 °C ~ +85 °C

Example: O 20.0-VX3UH (LF = RoHS compliant / Pb free pins or pads)

Packing Note

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

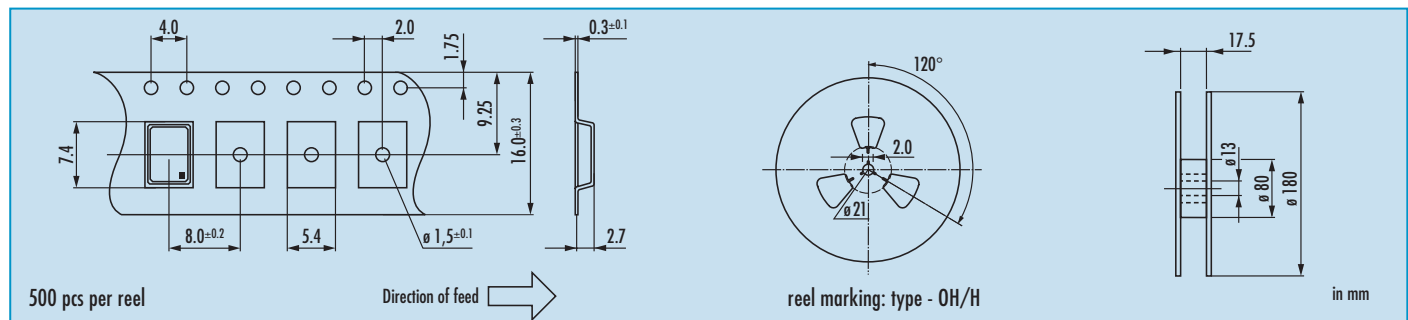


Jauch Quartz GmbH • e-mail: info@jauch.de
full data can be found under: www.jauch.de / www.jauch.fr / www.jauchusa.com
All specifications are subject to change without notice

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Taping Specification (JIS-C0806)



Enable / Disable Function

pin #1 (e/d control)	pin #3 (output)
open	active
high "1" ($V_{IH} \geq 0.8 V_{DC}$)	active
low "0" ($V_{IL} \leq 0.2 V_{DC}$)	high impedance
stop function: • oscillator stops • output high impedance	

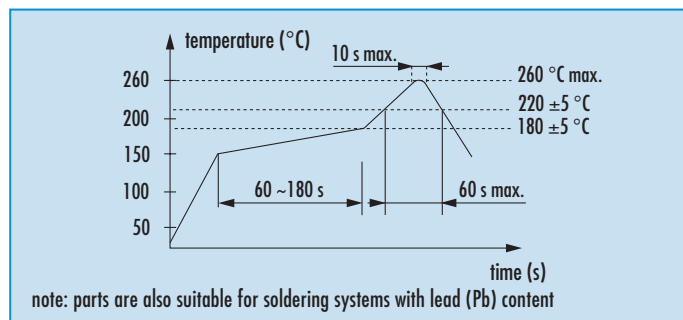
Marking

type / frequency

date code:
 A ~ M: Jan. - Dec.
 5: 2005
 6: 2006
 7: 2007

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



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