

actual size

Oscillator · JO32H · 3.3 V

High Stability Oscillator with Stop Function · 3.2 x 2.5 mm

- low cost high stability SMD oscillator
- stability meets spec for WiMax and WLAN
- RoHS compliant, ceramic/metal package
- reflow soldering temperature: 260 °C max.

RoHS 2002/95/EC
RoHS compliant

Pb free: pins / pads

General Data

type		JO32H 3.3V
frequency range		4.0 ~ 54.0 MHz (15pF max.)
frequency stability over all*		± 10ppm ~ ± 20ppm (table 1)
aging 1st year		+/-2 ppm max.
current consumption		7 mA max.
supply voltage V_{DC}		3.3 V ± 10%
temperature	operating	-20°C ~ +70°C / -40°C ~ +85°C
	storage	-40°C ~ +85°C
output	rise & fall time	5 nsec max.
	load max	15pF
	current max.	4 mA
	low level max.	0.1 x V_{DC}
	high level min.	0.9 x V_{DC}
output enable time max.		1ms
output disable time max.		250ns
start-up time max.		2ms
standby function		stop
standby current max.		5µA
phase jitter 12kHz~20MHz		< 3.0 ps RMS typ.
symmetry at 0.5 x VDC		45% ~ 55% max.

Table 1: Frequency Stability Code

stability code	D ± 20 ppm	E ± 15 ppm	F ± 10 ppm		
-20 °C ~ +70 °C	○	○	○		
-40 °C ~ +85 °C	○	○	○		
○ available					

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

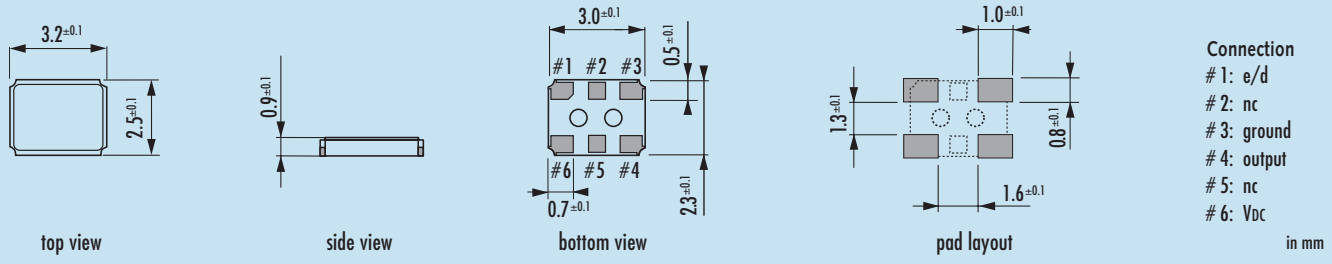
Table 2: Rise & Fall Time max.

5 ns: 4.0 ~ 54.0 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}

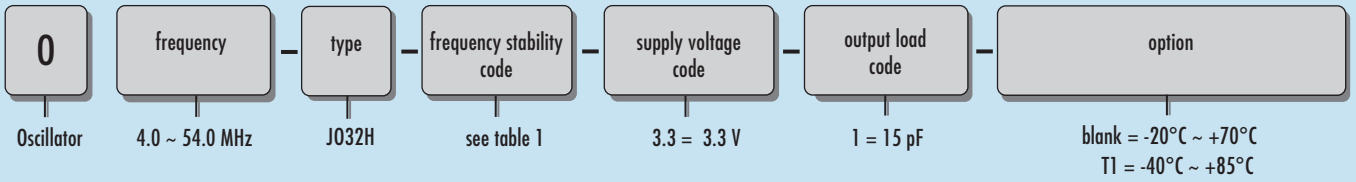
Enable / Disable Function

pin #1 (e/d control)	pin #3 (output)
open	active
high "1" ($V_{IH} \geq 0.7\ V_{DC}$)	active
low "0" ($V_{IL} \leq 0.3\ V_{DC}$)	high impedance
stop function: • oscillator stops / • output high impedance	

Dimensions



Order Information

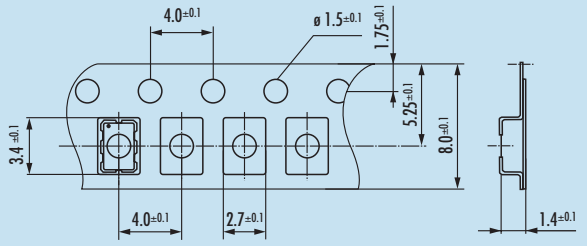


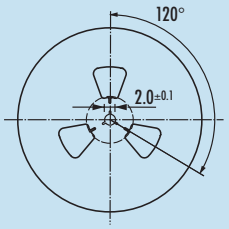
Example: O 20.0-JO32H-F-3.3-1-T1 (LF = RoHS compliant / Pb free pins or pads)

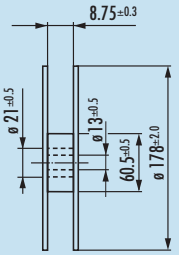
Jauch Quartz GmbH • e-mail: info@jauch.de
full data can be found under: www.jauch.de / www.jauch.fr / www.jauchusa.com
All specifications are subject to change without notice

Oscillator · JO32H · 3.3 V · Low Power

Taping Specification



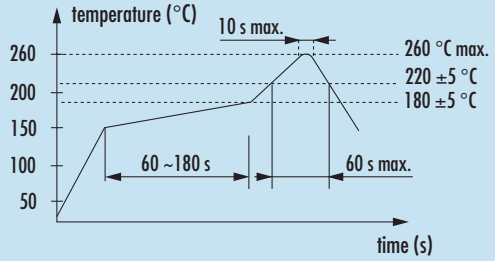




500 pcs per reel

Feeding

Reflow Soldering Profile



note: parts are also suitable for soldering systems with lead (Pb) content

Marking

frequency

frequency / frequ. stability code / date code

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

Packing Note

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