

查询"2020.0003"供应商



actual size

Oscillator · JO53 · 2.5 V

SMD Oscillator with Stop Function · 5.0 x 3.2 mm

- reflow soldering temperature: 260 °C max.
- ceramic/metal package



General Data

type		JO53 2.5 V
frequency range		0.50 ~ 80.0 MHz (15pF max.)
		0.50 ~ 50.0 MHz (30pF max.)
frequency stability over all*		± 20 ppm ~ ± 100 ppm (table 1)
current consumption		see table 2
supply voltage V_{DC}		2.5 V ± 5%
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.	4mA
	low level max.	0.1 x V_{DC}
	high level min.	0.9 x V_{DC}
output enable time max.		10ms
output disable time max.		200ns
start-up time max.		10ms
standby function		stop
standby current max.		5µA
phase jitter 12 kHz ~ 20.0 MHz		< 1.0ps RMS
symmetry at 0.5 x V_{DC}		45% ~ 55% typ. (40% ~ 60% max.)

Table 1: Frequency Stability Code

stability code	A	B	G	C	D
	± 100 ppm	± 50 ppm	± 30 ppm	± 25 ppm	± 20 ppm
-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.

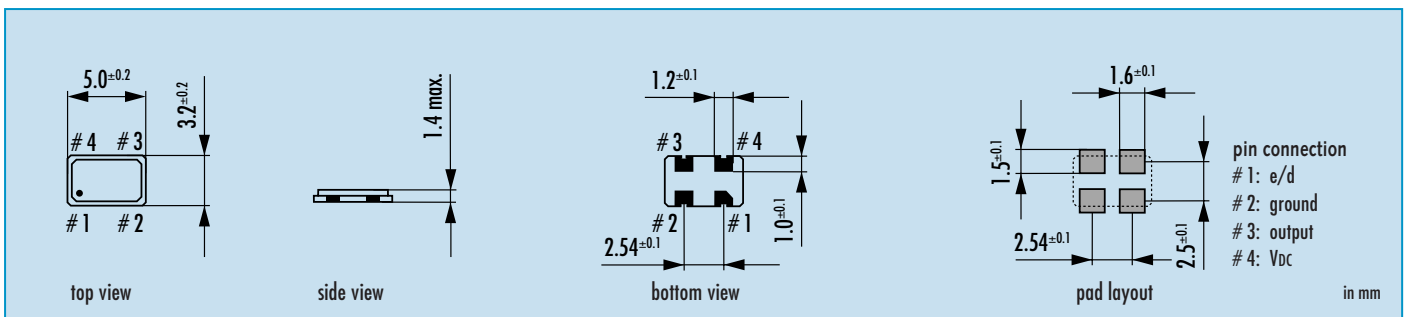
Table 2: Current Consumption max.

Current at 15pF load		Current at 30pF load	
0.5 ~ 14.9 MHz	6 mA	0.5 ~ 14.9 MHz	8 mA
15.0 ~ 29.9 MHz	8 mA	15.0 ~ 29.9 MHz	10 mA
30.0 ~ 39.9 MHz	10 mA	30.0 ~ 39.9 MHz	13 mA
40.0 ~ 49.9 MHz	13 mA	40.0 ~ 50.0 MHz	15 mA
50.0 ~ 59.9 MHz	16 mA		
60.0 ~ 80.0 MHz	20 mA		

Table 3: Rise & Fall Time max.

6 ns: 0.5 ~ 1.79 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}
5 ns: 1.80 ~ 49.90 MHz	
4 ns: 50.0 ~ 80.00 MHz	

Dimensions



Order Information

0	frequency	type	frequency stability code	supply voltage code	output load code	option
Oscillator	0.5 ~ 80.0 MHz	JO53	see table 1	2.5 = 2.5 V	1 = 15 pF 2 = 30 pF	blank = -10 °C ~ +70 °C T1 = -40 °C ~ +85 °C
Example: O 20.0-JO53-B-2.5-1 (LF = RoHS compliant / Pb free pins or pads)						

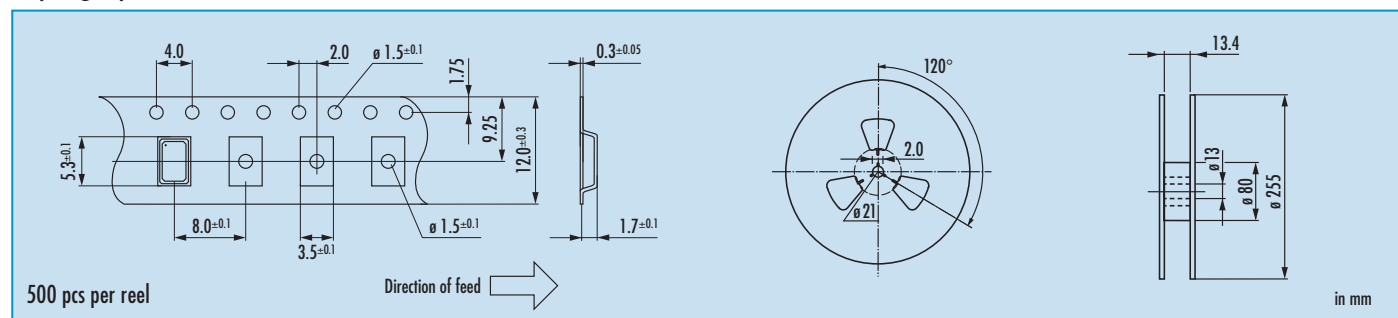


Jauch Quartz GmbH • e-mail: info@jauch.de
 full data can be found under: www.jauch.de / www.jauch.fr / www.jauchusa.com
 All specifications are subject to change without notice

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Taping Specification



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

frequency
type / date code

date code:
A ~ M: Jan.- Dec.

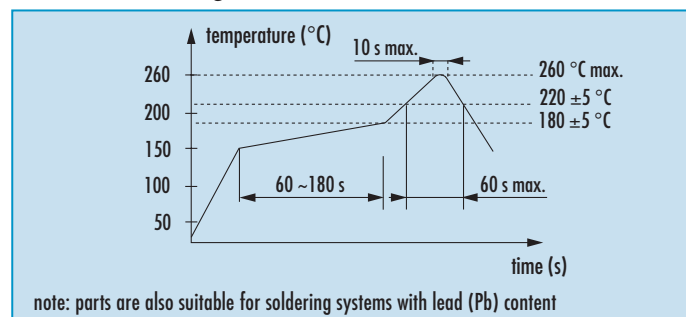
5: 2005

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

Reflow Soldering Profile



Packing Note

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