



actual size

# Oscillator · JO75 · 3.3 V

Low Frequency Oscillator with Stop Function · 7.5 x 5.0 mm

- high stability type for RTC application
- reflow soldering temperature: 260 °C max.
- ceramic/metal package



## General Data

type	JO75 3.3 V
frequency range	12.0 kHz ~ 1.0 MHz (30pF max.)
frequency stability over all*	± 20ppm ~ ± 100ppm see table 1
current consumption	see table 2
supply voltage V <sub>DC</sub>	3.3 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.: 2mA low level max.: 0.1 x V <sub>DC</sub> high level min.: 0.9 x V <sub>DC</sub>
output enable time max.	5ms
output disable time max.	150ns
start-up time max.	5ms
standby function	stop
standby current max.	10µA
symmetry at 0.5 x V <sub>DC</sub>	45% ~ 55% 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 shock and vibration

\* 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
12.0 kHz ~ 1.0 MHz 10 mA	12.0 kHz ~ 1.0 MHz 16 mA

Table 3: Rise & Fall Time max.

6.0 ns: 12.0 kHz ~ 1.0 MHz	<b>note:</b> - specific data on request - rise time: 0.1 V <sub>DC</sub> ~ 0.9 V <sub>DC</sub> - fall time: 0.9 V <sub>DC</sub> ~ 0.1 V <sub>DC</sub>
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## Standard Frequency

32.768 KHz
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## Dimensions

pin connection  
 # 1: e/d  
 # 2: ground  
 # 3: output  
 # 4: V<sub>DC</sub>

in mm

## Order Information

0	frequency	type	frequency stability code	supply voltage code	output load code	option
Oscillator	0.012 ~ 1.0 MHz	JO75	see table 1	3.3 = 3.3 V	1 = 15 pF 2 = 30 pF	blank = -10 °C ~ +70 °C T1 = -40 °C ~ +85 °C

Example: O 0.032768-JO75-B-3.3-1 (LF = RoHS compliant / Pb free pads)