

actual size

Oscillator JOD75 · LVDS

- SMD Low Voltage LVDS Oscillator, 7.5 x 5.2 mm
- drives fast LVDS logic
- complementary outout, low EMI
- ceramic / metal package



RoHS compliant



Pb free



REACH compliant



Conflict mineral free

GENERAL DATA

TYPE		JOD75 3.3V & 2.5V
frequency range		75.0 ~ 170.0 MHz
higher frequencies on request		170.0 ~ 270.0 MHz
frequency stability over all*		± 25 ppm ~ ± 100 ppm (see table 1)
current consumption		66 mA max.
supply voltage V_{DC}		3.3 V ±5% / 2.5 V ±5%
temperature	operating	-10°C ~ +70°C / -40°C ~ +85°C
	storage	-55°C ~ +125°C
output	rise & fall time	0.7 ns (20% ~ 80% of Vpp)
	load nom.	100 Ω differential
	swing	0.35 Vp-p typ. / 0.25 Vp-p min.
	offset voltage	1.25 V ± 0.125 V
output enable time max.		10 ms
output disable time max.		200 ns
start-up time max.		10 ms
standby function		stop
standby current max.		30 µA
phase jitter 12 kHz ~ 20.0 MHz		< 1.0 ps RMS
period jitter		< 5.0 ps RMS
symmetry at 50% of Vpp		45% ~ 55% max.

TABLE 1: FREQUENCY STABILITY CODE

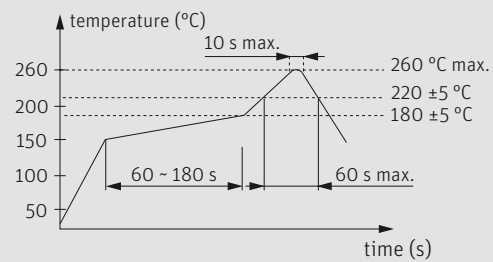
stability code		A	B	C	
		± 100 ppm	±50 ppm	± 25 ppm	
-10°C ~ +70°C	T0	○	○	△	
-40°C ~ +85°C	T1	○	○		

◇ standard ○ available △ excludes shock and vibration

ENABLE / DISABLE FUNCTION

pin #1 (e/d control)	pin #4 / #5 (outputs)
open or ≥ 0.7 V_{CC}	enable
gnd or ≥ 0.3 V_{CC}	high impedance

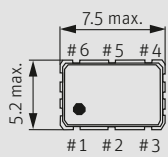
REFLOW SOLDERING PROFILE



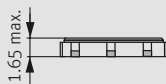
note: parts are also suitable for soldering systems with lead (Pb) content

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

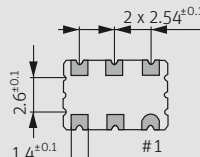
DIMENSIONS



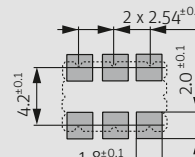
top view



side view



bottom view



pad layout

- # 1: e/d
- # 2: nc
- # 3: ground
- # 4: output 1
- # 5: output 2
- # 6: V_{CC}

in mm

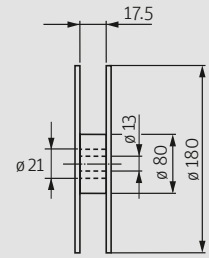
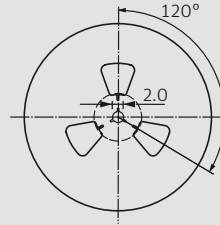
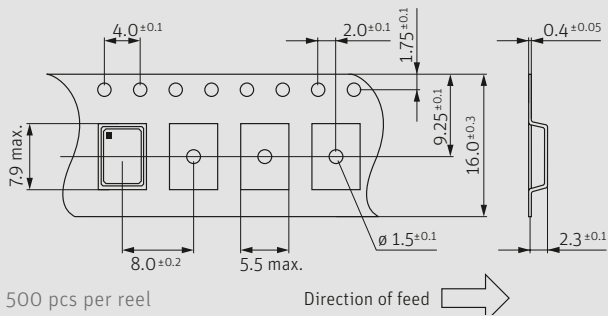
ORDER INFORMATION

0	frequency	type	frequency stability code	supply voltage code	option
Oscillator	75.0 ~ 170.0 MHz >170.0 MHz on request	JOD75	see table 1	3.3 = 3.3 V 2.5 = 2.5 V	blank = -10 °C ~ +70 °C T1 = -40 °C ~ +85 °C onrequest

Example: 0 155.520-JOD75-B-3.3-T1 (Suffix LF = RoHS compliant / Pb free)

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TAPING SPECIFICATION



in mm

500 pcs per reel

Direction of feed

PACKAGING NOTE

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

MARKING

type / stability code / voltage code
frequency

company code / date code

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

7: 2017 8: 2018 9: 2019 0: 2020 1: 2021 2: 2022

Jan.	Febr.	Mar.	Apr.	May	June
A	B	C	D	E	F
July	Aug.	Sept.	Oct.	Nov.	Dec.
G	H	J	K	L	M