



actual size

Oscillator JOD75 · 30T · LVDS

- SMD Low Voltage LVDS Oscillator, 7.0 x 5.0 mm
- internal 3rd overtone crystal, no PLL
- excellent phase noise (for option -IP)
- wide temperature range
- ceramic / metal package



RoHS compliant



Pb free



REACH compliant



Conflict mineral free

GENERAL DATA

TYPE		JOD75 30T 3.3 V & 2.5 V LVDS XO
frequency range	65.0 ~ 156.250 MHz	
higher frequencies on request	156.250 ~ 200.0 MHz	
frequency stability over all*	± 20 ppm ~ ± 100 ppm (see table 1)	
current consumption	35 mA max.	
supply voltage V_{DC}	3.3 V ± 5% / 2.5 V ± 5%	
temperature	operating	-20 °C ~ +70 °C ~ -40 °C ~ +125 °C
	storage	-55 °C ~ +125 °C
output	rise & fall time	< 0.4 ns (20% ~ 80% of V_{pp})
	load nom.	100 Ω differential
	swing	0.33 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	< 0.5 ps RMS / < 0.2 ps RMS for option -IP	
symmetry at 50% of V_{pp}	45% ~ 55% max. / 40% ~ 60% max. T2 & T3	

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

** ask if available

TABLE 1: FREQUENCY STABILITY CODE

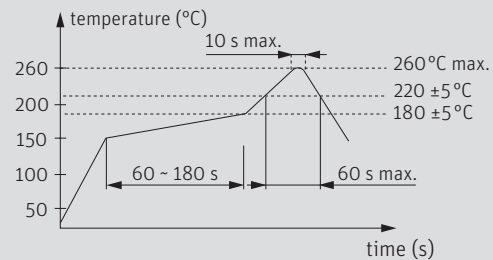
frequency stability code / temp. code	A ± 100 ppm	B ± 50 ppm	C ± 25 ppm	D ± 20 ppm
-20 °C ~ +70 °C		○	○	△
-40 °C ~ +85 °C	T1	◇	○	
-40 °C ~ +105 °C	T2**	○	○	
-40 °C ~ +125 °C	T3**	○	○	

◇ standard ○ available △ excludes shock and vibration

ENABLE / DISABLE FUNCTION

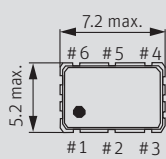
pin #1 (e/d control)	pin #4 / #5 (outputs)
open or ≥ 0.7 V_{CC}	enable
gnd or < 0.3 V_{CC}	high impedance

REFLOW SOLDERING PROFILE



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

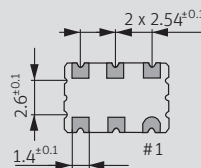
DIMENSIONS



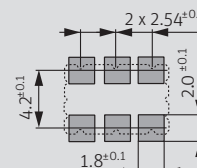
top view



side view



bottom view



pad layout

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

pin connection

in mm

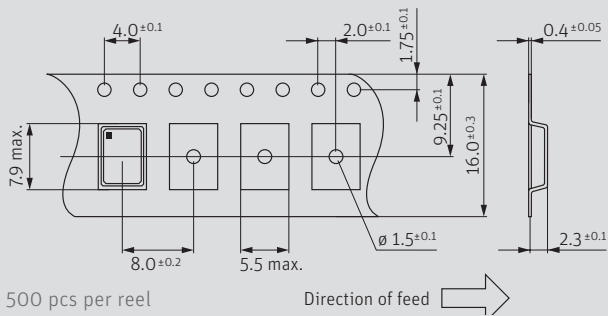
ORDER INFORMATION

0	frequency	type	frequency stability code	supply voltage code	temperature options	improved phase noise
Oscillator	65.0 ~ 156.250 MHz > 156.250 MHz ask if available	JOD75	see table 1	3.3 = 3.3 V 2.5 = 2.5 V	blank = -20 °C ~ +70 °C T1 = -40 °C ~ +85 °C T2 = -40 °C ~ +105 °C T3 = -40 °C ~ +125 °C	IP = improved phase noise (option for T1 & T2)

Example: 0 156.250-JOD75-B-3.3-T1-IP-LF (Suffix LF = RoHS compliant / Pb free)

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TAPING SPECIFICATION



in mm

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.

1: 2021 2: 2022 3: 2023 4: 2024 5: 2025 6: 2026

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