



actual size

Oscillator VCXO · PECL

- SMD PECL VCXO, 7.5 x 5.0 mm
- uses quartz crystal at fundamental mode and PLL
- high pulling range ± 150 ppm
- complementary PECL output, low EMI
- ceramic/metal package



RoHS compliant



Pb free



REACH compliant



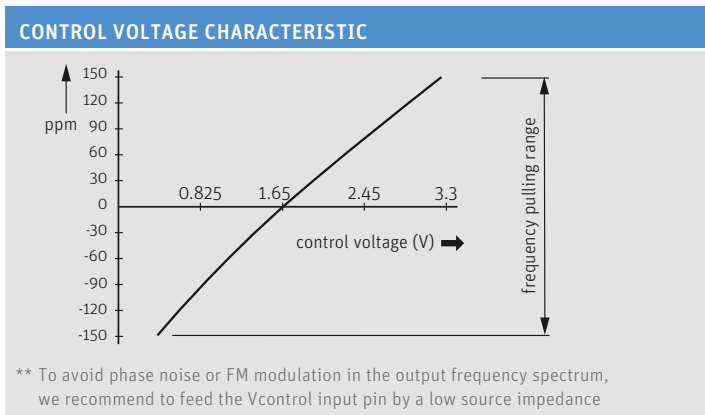
Conflict mineral free

GENERAL DATA		
TYPE	JVE75B	
frequency range	12.0 ~ 800.0 MHz	
frequency stability over all*	± 25 ppm / ± 50 ppm (see table 1)	
frequency pulling range min.	± 150 ppm	
pulling control voltage	1.65 V \pm 1.5 V**	
pulling control input imped. min.	60 k Ω	
current consumption	120 mA max.	
supply voltage V_{DC}	3.3 V \pm 5%	
temperature	operating	-10 °C ~ +70 °C / -40 °C ~ +85 °C
	storage	-40 °C ~ +85 °C
output	rise & fall time	1.0 ns (20% ~ 80% of Vpp)***
	load nom.	50 Ω at 1.3 V
	low level max.	1.7 V
	high level min.	2.2 V
standby function	yes	
output enable time max.	10 ms	
output disable time max.	50 ns	
start-up time max.	10 ms	
standby function	stop	
phase jitter 12 kHz ~ 20.0 MHz	< 5.0 ps RMS	
symmetry at 50% of Vpp	45% ~ 55% typ. (40% \pm 60% max.)	

TABLE 1: FREQUENCY STABILITY CODE			
stability code	B	C	
	± 50 ppm	± 25 ppm	
-10 °C ~ +70 °C	○	○	
-40 °C ~ +85 °C	○		

○ available

ENABLE / DISABLE FUNCTION	
pin #2 (e/d control)	pin #4 / #5 (outputs)
open or ≥ 2.4 V	active
gnd or ≥ 0.4 V	high impedance



* includes stability at 25 °C, operating temp. range, supply voltage change, shock and vibration, aging 1st year. *** 0.5 ns, if > 100.0 MHz

DIMENSIONS

top view side view bottom view pad layout pin connection in mm

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

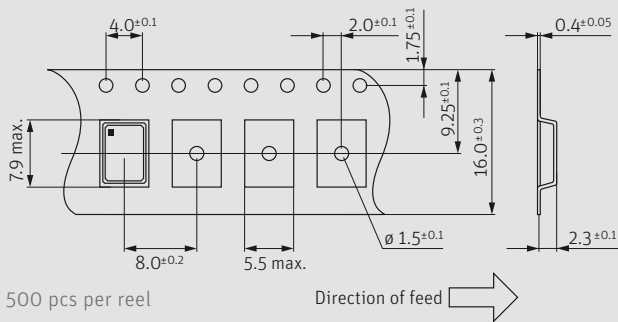
ORDER INFORMATION

0	frequency	type	frequency stability code	supply voltage	pulling range in ppm	pulling range in ppm
Oscillator	12.0 ~ 800.0 MHz	JVE75B	B = ± 50 ppm C = ± 25 ppm	3.3 = 3.3 V	15 = ± 150 ppm	blank = -10 °C ~ +70 °C T1 = -40 °C ~ +85 °C

Example: 0 155.520-JVE75B-B-3.3-15-T1-LF (Suffix LF = RoHS compliant / Pb free)

Oscillator VCXO · PECL · JVE75B

TAPING SPECIFICATION



500 pcs per reel

Direction of feed →

in mm

PACKAGING NOTE

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

MARKING

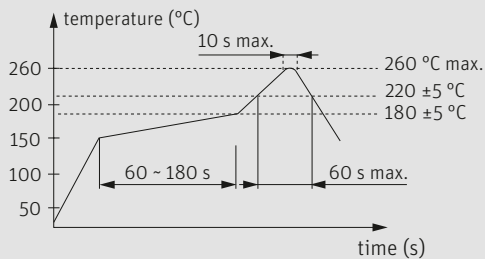
type
frequency
company / date code

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

REFLOW SOLDERING PROFILE



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