



actual size

Oscillator · PECL · VCXO

SMD PECL VCXO · 7.5 x 5.2 mm

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



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 impd. min.	60 k Ω
current consumption	120mA 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: 1.0ns (20% ~ 80% of V _{pp})* 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.	10ms
output disable time max.	50ns
start-up time max.	10ms
phase jitter 12 kHz ~ 20.0 MHz	< 5.0ps RMS
Osymmetry at 50% of V _{pp}	45% ~ 55% typ. (40% $\pm$ 60% max.)

* 0.5ns, if >100.0 MHz

Table 1: Frequency Stability Code

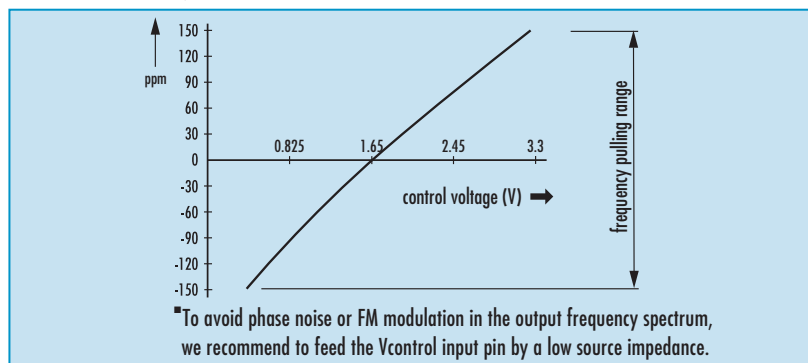
stability code	B	C				
	± 50 ppm	± 25 ppm				
-10 °C ~ +70 °C	○	○				
-40 °C ~ +85 °C	○					
● standard ○ available						

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

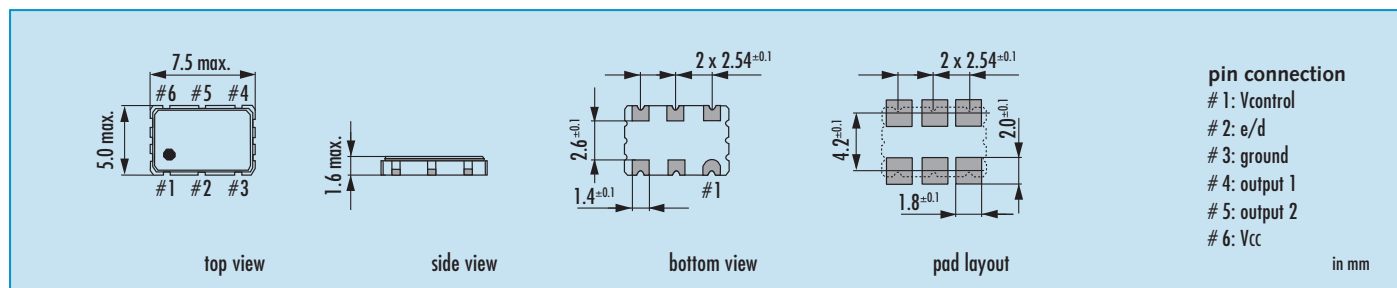
Enable / Disable Function

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

Control Voltage Characteristic



Dimensions



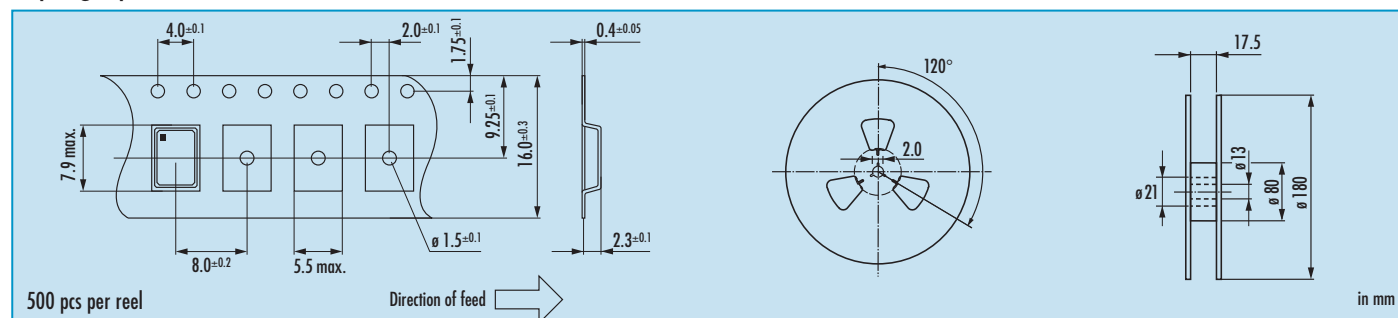
Order Information

0	frequency	type	stability at 25 °C in ppm	supply voltage	pulling range in ppm	option
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: O 155.520-JVE75B-B-3.3-15-T1 (Suffix LF = RoHS compliant / Pb free pins or pads)

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Taping Specification



Packing Note

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

Marking

type / frequency / date code

date code:

A ~ M: Jan.- Dec.

9: 2009

0: 2010

1: 2011

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

