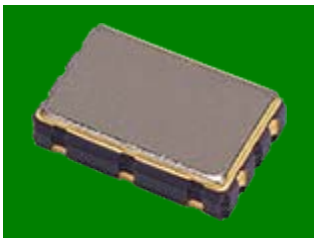
Wavetron

LVPECL Voltage Controlled Clock Oscillator
7.0 x 5.0mm Surface Mount Package

Pb RoHS Compliant



Features

- LVPECL, Extended Temperature
- 3.3V Operation
- Seam Seal
- Low power consumption
- RoHS Compliant

Electrical Specifications

Frequency Range		1.000 ~ 800.000	MHz
Frequency Stability		±100 ~ ±25	PPM Max
Aging Per Year		±3	
Operating Temperature Range	Standard	0 ~ +70	°C
	Extended	-40 ~ +85	
Storage Temperature Range		-55 ~ +125	
Input Voltage		3.3 ±5%	V
Control Voltage		1.65 ±1.35	
Input Current		120	mA Max
Pulling Range		±50 ~ ±130	ppm min
Output Voltage	0 Level (Vol)	Vcc – 1.63V	Vdc Max
	1 Level (Voh)	Vcc – 1.02V	Vdc Min
Output Symmetry (Duty Cycle)	Standard	40 ~ 60	%
	Tight	45 ~ 55	
Tri-state Output		High or Open : Oscillation, Low : High Impedance	
Rise & Fall Time		1.0	ns Max
Start Up time		10	ms Max
Linearity		±10	%

Phase Jitter

1MHz ≤ F ≤ 80MHz : 1ps RMS max
80MHz < F ≤ 800MHz : 3ps RMS max (12KHz ~ 20MHz)

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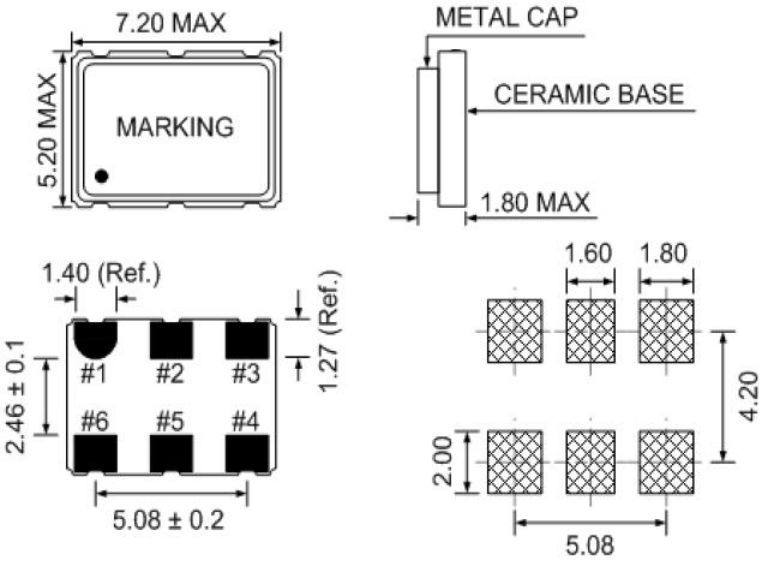
Part Numbering System

Type	Frequency Stability (PPM)		-	Supply Voltage (Vdd)		-	Frequency (MHz)	-	Duty Cycle (*1)		-	Extended Temperature (*1)	-	Pulling Range (ppm min)		-	Tape & Reel
WSV7LV	10 05 02	± 100 ± 50 ± 20	-	33	+ 3.3	-	1.000 to 800.000	-	T	45/55 %	-	EXT	-	50 80 100 130	±50 ±80 ±100 ±130	-	TR

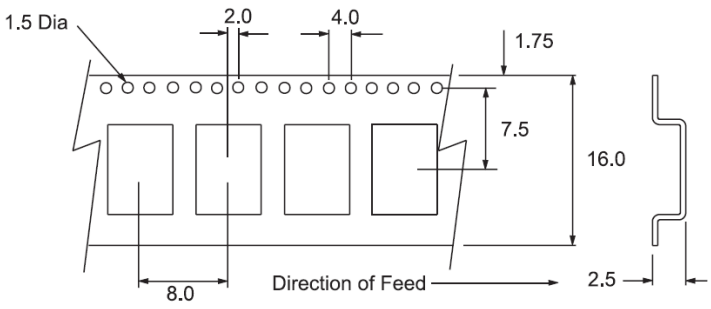
Examples : WSV7LV05-50-12.000-100-TR, WSV7LV10-33-48.000-T-EXT-80-TR

Mechanical Outline



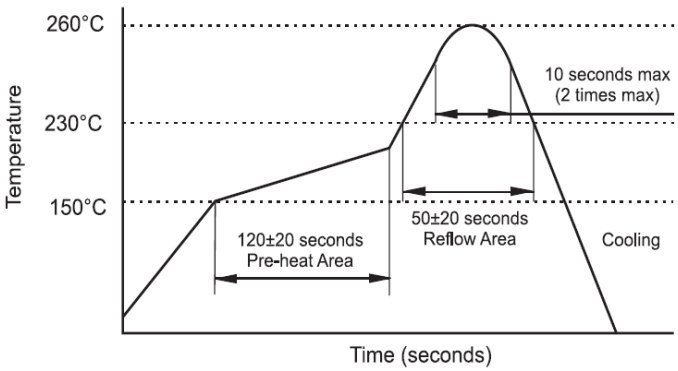
Pin	Function
1	V Control
2	E/D
3	Ground
4	Output
5	Comp. Output
6	VCC

Carrier Tape Dimensions



(Dimensions are millimeters)

Solder Reflow Characteristics



Notes:
1. Standard Duty cycle and Standard Temperature Range, do not need to be included in Part Number description.
2 - Product is shipped in Tape and Reel configuration. Each reel contains 1000 pieces.
3 - Specification subject to change without notice.