

Voltage Controlled Clock Oscillator Unit 8pin DIP-Full Size HCMOS/TTL



Features

- Standard 8 pin Dip Metal Package
- Metal 8Pin DIP, Welding, 12.8 x 12.8 x 5.08
- 3.3V/5.0V Operation
- Low Cost
- Rohs Compliant

Electrical Specifications

Frequency Range	1.000 ~ 200.000		MHz
Frequency Stability	±100 ~ ±25		PPM Max
Aging Per Year	±5		
Operating Temperature Range	Standard	0 ~ +70	°C
	Extended	-40 ~ +85	
Storage Temperature Range	-55 ~ +125		
Input Voltage	3.3 ±10%	5.0 ±10%	V
Control Voltage	1.65 ±1.65	2.50 ±2.00	
Input Current	50		mA Max
Pulling Range	±50 ~ ±130		ppm min
Output Voltage	0 Level (Vol)	10%	Vdd Max
	1 Level (Voh)	90%	Vdd Min
Output Symmetry (Duty Cycle)	Standard	40 ~ 60	%
	Tight	45 ~ 55	
Output Load	HCMOS-TTL/15pF or 10TTL		
Rise & Fall Time	10		ns Max
Start Up time	10		ms Max
Linearity	10		%

Rise / Fall time

- $1\text{MHz} \leq F \leq 20\text{MHz} : 10\text{ns max}$
 $20\text{MHz} < F \leq 40\text{MHz} : 8\text{ns max}$
 $40\text{MHz} < F \leq 80\text{MHz} : 5\text{ns max}$
 $80\text{MHz} < F \leq 200\text{MHz} : 10\text{ns max (multi)}$

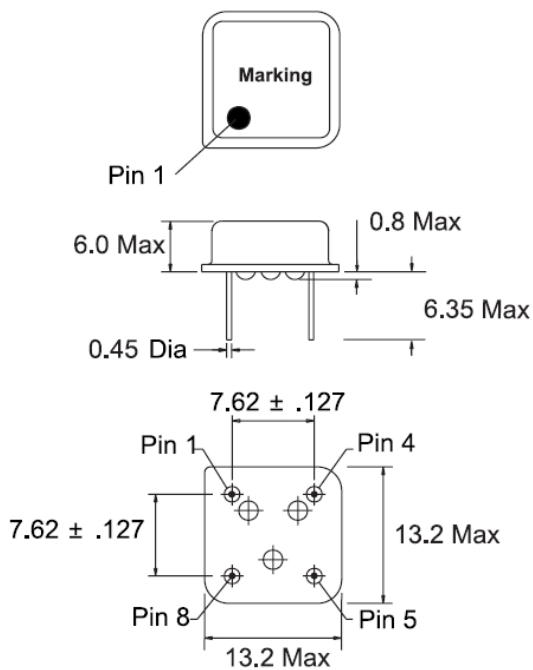
Temperature stability is inclusive of all Conditions : Calibration Tolerance at +25 °C, frequency stability over the operation temperature range , supply voltage, supply voltage change, output load change, shock, vibration, and 1st year aging at +25 °C.

Part Numbering System

Type	Frequency Stability (PPM)		Supply Voltage (Vdd)		Frequency (MHz)	Duty Cycle (*1)		Extended Temp. (*1)	Pulling Range (ppm min)										
WDV8H	10	± 100	-	50	-	1.000 to 200.000	T	45/55%	-	EXT	50	±50							
	05	± 50		33							+ 5.0 ±10%	80	±80						
	025	± 25		-							-	-	-	-	-	-	-	100	±100
																		130	±130

Example : WDV8H10-50-24.576-100, WDV8H05-33-50.000-T-EXT-50, WDV8H025-33-32.000-EXT-100

Mechanical Outline



Pin	Connection
1	V control
4	Ground
5	Output
8	Vcc

8 pin DIP Package Weld Metal package
(Dimensions are millimeters)

- Notes:
- 1 - Standard Duty Cycle and Temperature Range do not need to be included in Part Number description.
 - 2 - Product is shipped in ESD Plastic Tubes. Each tube contains 40 pieces.
 - 3 - Specification subject to change without notice.