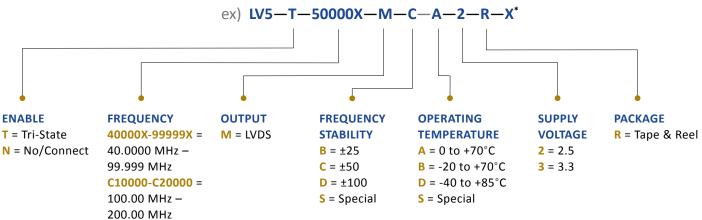


## LV5-Series Specifications



#### 5.00L x 3.20W x 1.20H (mm)

PDI Model LV5-Series provides precision timing in a hermetically sealed package. These high performance clock oscillators offer very low integrated phase jitter and superior phase noise. PDI provides quick-turn sampling for your proto-typing needs, mass production capability, and competitive pricing.



\* - for standard or assigned for customization.

Parameter		Supply Voltage <sup>*1</sup> (±5%)	Units
		3.3 2.5	V
Frequency Range <sup>*1</sup>		40.000000 to 200.000000	MHz
Frequency Stability <sup>*1</sup>	All Causes (Maximum )*2	Per Option	ppm
Temperature Range <sup>*1</sup>	Operating	Per Option	°C
	Storage	-55 to +125	°C
Supply Current (Maximum)		40	mA
Output		Differential LVDS Squarewave	
Load (Typical)	Between Output and Comp Output	100	Ω
Duty Cycle (Maximum)	@ 50% Vcc	45/55	%
Rise/Fall Times (Maximum)	Rise Time (20% to 80% Vcc)	0.4	nS
	Fall Time (80% to 20% Vcc)	0.4	
Start up Time (Maximum)		10.0	mS
Output Voltage Levels	High Voh (RL = 100Ω)	1.43 Typical , 1.60 Maximum	V
	Low Vol (RL = 100Ω)	0.90 Minimum , 1.10 Typical	
Differential Voltage		250 Min , 350 Typ , 450 Max	mV
Pin 1 (Tri-State) (Option)	High (See below) or Open	Enable	
	Low (See below) <sup>*3</sup>	Disable	
	High Value (Minimum)	70	% Vcc
	Low Value (Maximum) <sup>*3</sup>	30	% Vcc
	Disable Current (Typical)*3	10	uA
	Enable Delay Time (Maximum)	2.0	mS
	Disable Delay Time (Maximum)	0.2	uS
Integrated Phase Jitter (RMS)	12KHz to 20MHz	0.3 Typical , 1.0 Maximum	pS
Phase Noise (Typical)	@ 10KHz Offset	-138	dBc/Hz
	@ 100KHz Offset	-144	

\*1 - Not all Frequency/Temperature/Voltage combinations are available.

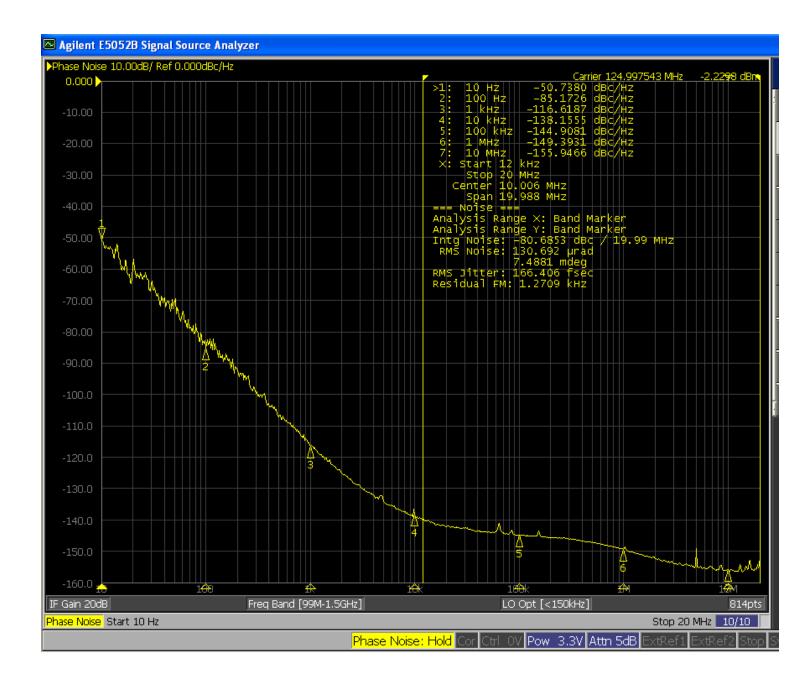
\*2 - Inclusive of Tolerance @25°C, Operating Temperature, Supply Voltage, Load, Aging, Shock and Vibration.

\*3 - Internal crystal oscillation halted.



### LV5-Series 5.00 x 3.20 x 1.20 (mm)

#### **TYPICAL PHASE NOISE PLOT**



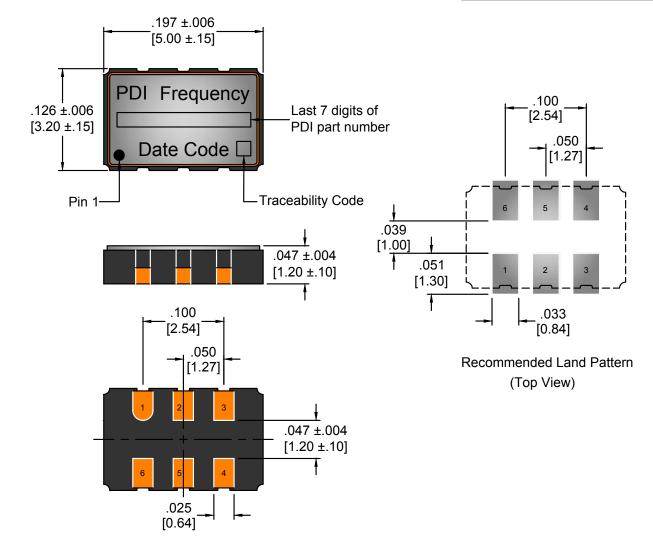


## LV5-Series 5.00 x 3.20 x 1.20 (mm)

#### **PACKAGE DIMENSIONS**

Decimal XXX = ± .008, XX = ± .02 Metric [XXX = ± .20], [XX = ± .50]

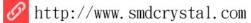
PIN	CONNECTION	
1	Tri-State or No Connect	
2	No Connect	
3	Ground/Case	
4	Output	
5	Complementary Output	
6	Supply Voltage	



**(№)** 0755–27872782



#### 深圳市泰河电子有限公司 🖂 taiheth@163.com



# LV5-Series 5.00 x 3.20 x 1.20 (mm)



- 1. Material: Black Conductive Polystyrene or equivalent.
- 2. 10 Sprocket Hole pitch cumulative tolerance of ±.008.
- **3**. Camber in compliance with EIA 481.
- 4. Empty pockets: Trailing end (Minimum) 200 mm. and Leading end (Minimum) 400 mm.
- 5. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

