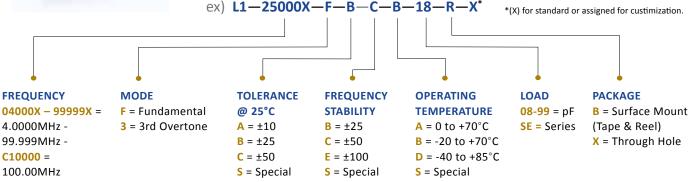
# **L1-Series Specifications**





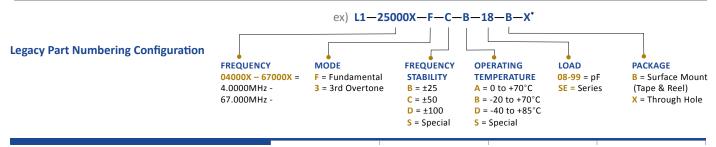
#### 11.40L x 4.70W x 3.20H (mm)

PDI *L1-Series* is a hermetically sealed quartz crystal in resistance-welded SMD and through hole packages. This crystal, designed to meet your most demanding specification, is available in standard or custom frequencies and/or with customized parameters. PDI provides quick-turn sampling for your proto-typing needs, mass production capability, and competitive pricing.



See below for legacy part numbering configuration for parts designed prior to 02-01-2014, which are still available

Parameter		Mode		
		Fundamental	3rd Overtone	Units
Frequency Range <sup>*1</sup>		4.000000 to 50.000000	35.000000 to 100.000000	MHz
Frequency Tolerance	@ +25°C	Per Option		ppm
Temperature Range <sup>*1</sup>	Operating	Per Option		°C
	Storage	- 55 to +125		°C
Frequency Stability <sup>*1</sup>	Over Operating Temperature	Per Option		ppm
Equivalent Series Resistance (Maximum)	4.000000 to 5.000000 MHz	120	N/A	Ω
	5.000000 to 6.000000 MHz	100	N/A	
	6.000000 to 7.000000 MHz	80	N/A	
	7.000000 to 10.000000 MHz	60	N/A	
	10.000000 to 14.000000 MHz	50	N/A	
	14.000000 to 20.000000 MHz	40	N/A	
	≥ 20.000000 MHz	30	N/A	
	24.000000 to 35.000000 MHz	N/A	100	
	≥ 35.000000 MHz	N/A	80	
Drive Level (Typical)		100		uW
Shunt Capacitance (Maximum)		5.0		рF
Load Capacitance (Typical)		Per Option		рF
Aging (Maximum)	Per Year	±5.0		ppm
Seal Method		Resistance Weld		
Insulation Resistance		500MΩ Minimum @100Vdc ±15V		
	*1 - Not all Frequency/Stability/Tempe	erature combinations are ava	ailable.	



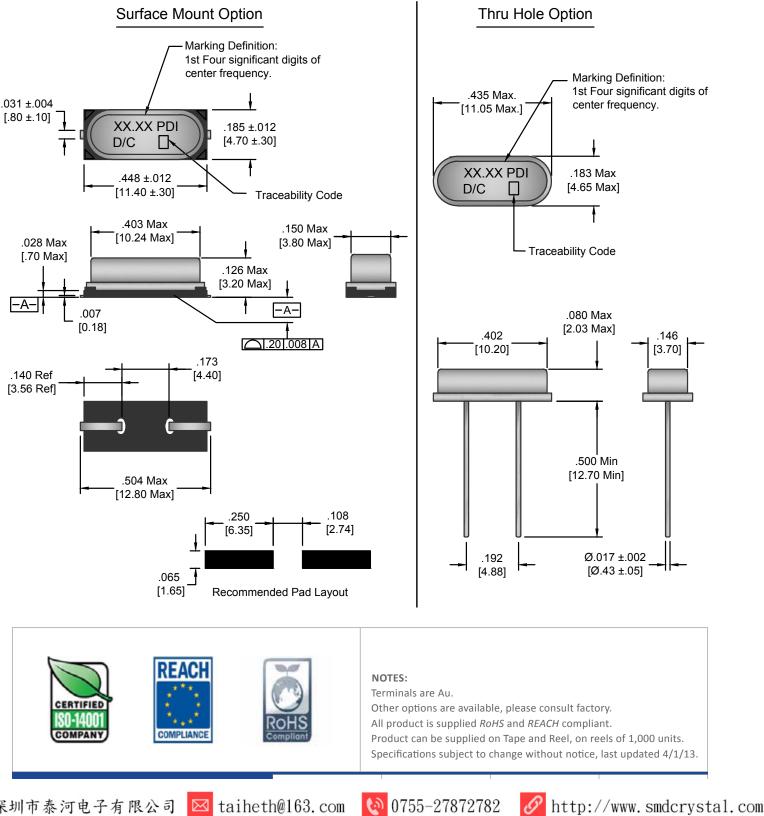
🚺 0755-27872782 🔗 http://www.smdcrystal.com

## L1-Series 11.40 x 4.70 x 3.20 (mm)



### PACKAGE DIMENSIONS

Decimal XXX =  $\pm$  .008, XX =  $\pm$  .02 Metric [XXX =  $\pm$  .20], [XX =  $\pm$  .50]



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# L1-Series 11.40 x 4.70 x 3.20 (mm)



- 1. Material: Black Conductive Polystyrene or equivalent.
- $\mathbf{2.}\ 10\ \text{Sprocket}\ \text{Hole}\ \text{pitch}\ \text{cumulative}\ \text{tolerance}\ \text{of}\ \pm.008$
- 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.

