

# STANDARD LOW POWER INDUCTORS

## Switch Mode Power Converters & Ripple Filters



- Designed for general purpose use
- High inductance stability with varying volt-seconds and load currents
- Compact, standard packages
- Low profile or vertical packages

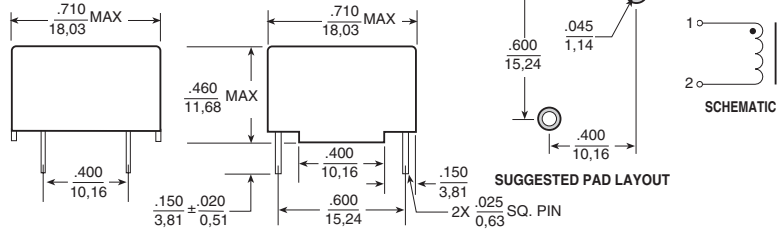
### Electrical Specifications @ 25°C — Operating Temperature -40°C to 130°C

| Low Profile <sup>3</sup><br>Part<br>Number | Vertical <sup>3</sup><br>Part<br>Number | REFERENCE OPERATING VALUES          |                            |                                                            |                                              | DESIGN CONTROL VALUES                       |                           |                        |
|--------------------------------------------|-----------------------------------------|-------------------------------------|----------------------------|------------------------------------------------------------|----------------------------------------------|---------------------------------------------|---------------------------|------------------------|
|                                            |                                         | Inductance<br>Typical<br>( $\mu$ H) | Idc <sup>1</sup><br>(AMPS) | Maximum <sup>2</sup><br>ET <sub>OP</sub><br>(V- $\mu$ Sec) | Energy<br>Storage<br>( $\mu$ J) <sup>1</sup> | Inductance<br>No DC<br>( $\mu$ H $\pm$ 20%) | 20kHz<br>Test mV<br>No DC | DCR<br>( $\Omega$ MAX) |
| PE-52625NL                                 | PE-52645NL                              | 150                                 | 1.7                        | 80                                                         | 215                                          | 145                                         | 110                       | .42                    |
| PE-52626NL                                 | PE-52646NL                              | 220                                 | 1.5                        | 90                                                         | 240                                          | 226                                         | 140                       | .42                    |
| PE-52627NL                                 | PE-52647NL                              | 330                                 | 1.0                        | 100                                                        | 165                                          | 316                                         | 170                       | .78                    |
| PE-52628NL                                 | PE-52648NL                              | 470                                 | .90                        | 120                                                        | 190                                          | 480                                         | 210                       | 1.26                   |
| PE-52629NL                                 | PE-52649NL                              | 680                                 | .85                        | 175                                                        | 245                                          | 690                                         | 250                       | 1.50                   |
| PE-52630NL                                 | PE-52650NL                              | 820                                 | .75                        | 175                                                        | 230                                          | 780                                         | 270                       | 2.40                   |
| PE-52631NL                                 | PE-52651NL                              | 1000                                | .50                        | 175                                                        | 125                                          | 975                                         | 300                       | 2.60                   |

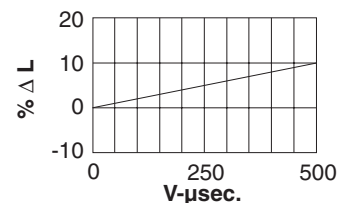
NOTES: 1. Idc rated for 40°C Temperature rise @ low ET<sub>OP</sub>. 2. Derate current 20% at this ET<sub>OP</sub>.  
3. The Leaded version of these parts is available by removing the "NL" suffix when ordering.

## Mechanicals

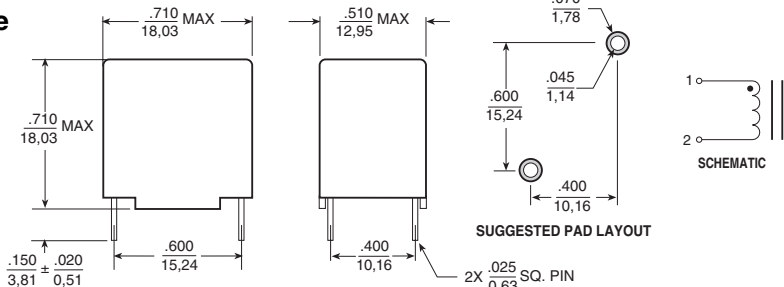
### Low Profile Package



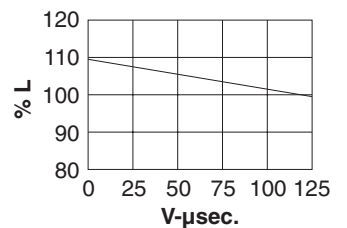
### Inductance Characteristics



### Vertical Package



### Inductance Variance vs. E.T.



### Inductance Variance vs. Load Current

Unless otherwise specified, all tolerances are  $\pm .010$   
 $0.25$

Dimensions:  $\frac{\text{inches}}{\text{mm}}$

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[PE-52651](#) [PE-52625NL](#)