

- Schott Corporation has worked closely with National Semiconductor to build a line of premium inductors designed specifically for use with the Simple Switcher® in DC/DC applications. Excellent self-shielding makes these inductors ideal for any EMI-sensitive use.
- The gapped core assures stable inductance with varying DC current. These characteristics are combined with low DC resistance to enable cooler running parts with less ripple.

## Simple Switcher Specifications

| Schott P/N | Previous Schott P/N | NSC Reference | Inductance $\mu$ H Min | Saturating Current Amps DC | Maximum DCR Ohms | Configuration |
|------------|---------------------|---------------|------------------------|----------------------------|------------------|---------------|
| 34037      | 67126980            | L 47          | 42-50                  | 3.00                       | 0.025            | 18x11 PC      |
| 34038      | 67126990            | L 68          | 65-78                  | 3.00                       | 0.030            | 22x13 PC      |
| 34039      | 67127000            | L 100         | 92-112                 | 3.00                       | 0.035            | 22x13 PC      |
| 34040      | 67127010            | L 150         | 135-160                | 2.00                       | 0.045            | 22x13 PC      |
| 34041      | 67127020            | L 220         | 200-240                | 1.30                       | 0.070            | 18x11 PC      |
| 34042      | 67127030            | L 330         | 300-360                | 1.00                       | 0.110            | 18x11 PC      |
| 34043      | 67127040            | L 470         | 430-510                | 0.95                       | 0.145            | 18x11 PC      |
| 34044      | 67127050            | L 680         | 620-730                | 0.62                       | 0.175            | 18x11 PC      |
| 34045      | 67127060            | H 150         | 135-165                | 3.00                       | 0.060            | 22x13 PC      |
| 34046      | 67127070            | H 220         | 195-235                | 3.00                       | 0.040            | 30x19 PC      |
| 34047      | 67127080            | H 330         | 295-355                | 3.00                       | 0.070            | 30x19 PC      |
| 34048      | 67127090            | H 470         | 430-520                | 1.90                       | 0.060            | 30x19 PC      |
| 34049      | 67127100            | H 680         | 620-750                | 1.30                       | 0.280            | 22x13 PC      |
| 34050      | 67127110            | H1000         | 900-1100               | 0.90                       | 0.250            | 22x13 PC      |
| 34051      | 67127120            | H1500         | 1400-1600              | 0.62                       | 0.260            | 22x13 PC      |
| 34052      | 67127130            | H2200         | 2000-2400              | 0.42                       | 0.900            | 18x11 PC      |

Parts availability subject to Schott manufacturing schedules and leadtimes. Not all parts available from stock. Please contact us for more details and availability. The Adobe Acrobat Reader is required to view these linked documents.

### Electrical Specifications Test Criteria

1. These inductors are designed for operating within a temperature range of  $-40^{\circ}\text{C}$  to  $+130^{\circ}\text{C}$ . All electrical characteristics are reported for operating at  $25^{\circ}\text{C}$ .
2. Inductance is measured at 10 kHz, 0.1 Vrms, except for parts #67127030, 040, and 050 which are measured at 10 kHz, 0.2 Vrms.
3. Saturating current is the current at which the inductance is equal to a minimum of 90% of the rated value.

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