

## Excellent Integrated System Limited

Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[API Delevan](#)  
[2510-50K](#)

For any questions, you can email us directly:

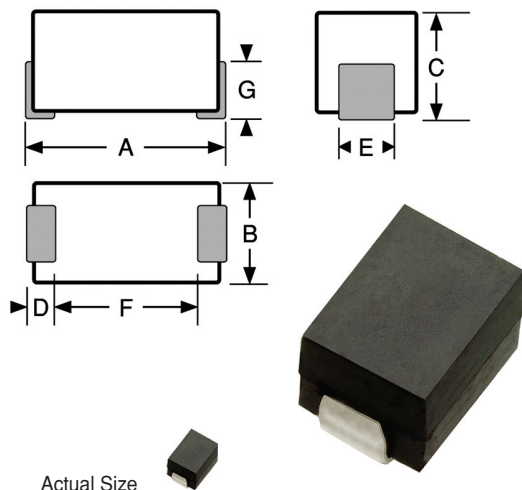
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**SERIES**

**2510R**  
**2510**



## Unshielded Surface Mount Inductors



### Physical Parameters

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.235 to 0.255    | 5.97 to 6.48     |
| B | 0.085 to 0.105    | 2.16 to 2.67     |
| C | 0.090 to 0.110    | 2.29 to 2.79     |
| D | 0.060 to 0.080    | 1.52 to 2.03     |
| E | 0.035 to 0.055    | 0.89 to 1.40     |
| F | 0.100 (Ref. only) | 2.54 (Ref. only) |
| G | 0.059 (Ref. only) | 1.47 (Ref. only) |

Dimensions "A" and "C" are over terminals.

### Weight Max. (Grams)

Phenolic: 0.19

Iron & Ferrite: 0.22

### Operating Temperature Range

Phenolic: -55°C to +125°C

Iron & Ferrite: -55°C to +105°C

### Current Rating at 90°C Ambient

Phenolic: 35°C Rise

Iron & Ferrite: 15°C Rise

### Maximum Power Dissipation at 90°C Ambient

Phenolic: 0.145 W

Iron & Ferrite: 0.062 W

**Marking** API/SMD; inductance with units and tolerance;  
date code (YYWWL). Note: An R before the date code  
indicates a RoHS component.

Example: 2510R-52K

API/SMD

15uH±10%

R 0614B

**Packaging** Tape & reel (12mm): 7" reel, 750 pieces max.;  
13" reel, 2700 pieces max.

| DASH NUMBER*                     | INDUCTANCE (uH) ±10% | TEST FREQUENCY (MHz) | Q MINIMUM | SFR MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (mA) |
|----------------------------------|----------------------|----------------------|-----------|-------------------|------------------------------|-----------------------------|
| <b>SERIES 2510 PHENOLIC CORE</b> |                      |                      |           |                   |                              |                             |
| -00K                             | 0.10                 | 25                   | 25.0      | 640.0             | 0.14                         | 865                         |
| -02K                             | 0.12                 | 25                   | 25.0      | 610.0             | 0.17                         | 785                         |
| -04K                             | 0.15                 | 25                   | 25.0      | 530.0             | 0.20                         | 725                         |
| -06K                             | 0.18                 | 25                   | 25.0      | 510.0             | 0.22                         | 690                         |
| -08K                             | 0.22                 | 25                   | 25.0      | 480.0             | 0.26                         | 635                         |
| -10K                             | 0.27                 | 25                   | 25.0      | 440.0             | 0.40                         | 510                         |
| -12K                             | 0.33                 | 25                   | 25.0      | 410.0             | 0.50                         | 455                         |
| -14K                             | 0.39                 | 25                   | 25.0      | 380.0             | 0.60                         | 415                         |
| -16K                             | 0.47                 | 25                   | 25.0      | 340.0             | 0.63                         | 405                         |
| <b>SERIES 2510 IRON CORE</b>     |                      |                      |           |                   |                              |                             |
| -18K                             | 0.56                 | 35                   | 25.0      | 240.0             | 0.19                         | 500                         |
| -20K                             | 0.68                 | 35                   | 25.0      | 210.0             | 0.21                         | 475                         |
| -22K                             | 0.82                 | 35                   | 25.0      | 200.0             | 0.24                         | 444                         |
| -24K                             | 1.0                  | 35                   | 7.9       | 180.0             | 0.27                         | 418                         |
| -26K                             | 1.2                  | 25                   | 7.9       | 160.0             | 0.32                         | 385                         |
| -28K                             | 1.5                  | 30                   | 7.9       | 140.0             | 0.53                         | 300                         |
| -30K                             | 1.8                  | 30                   | 7.9       | 125.0             | 0.59                         | 283                         |
| -32K                             | 2.2                  | 30                   | 7.9       | 120.0             | 0.76                         | 250                         |
| -34K                             | 2.7                  | 30                   | 7.9       | 100.0             | 0.90                         | 229                         |
| -36K                             | 3.3                  | 35                   | 7.9       | 90.0              | 1.35                         | 187                         |
| -38K                             | 3.9                  | 35                   | 7.9       | 85.0              | 1.70                         | 167                         |
| -40K                             | 4.7                  | 35                   | 7.9       | 80.0              | 2.30                         | 143                         |
| -42K                             | 5.6                  | 35                   | 7.9       | 75.0              | 3.10                         | 123                         |
| -44K                             | 6.8                  | 35                   | 7.9       | 64.0              | 3.60                         | 114                         |
| -46K                             | 8.2                  | 35                   | 7.9       | 50.0              | 4.8                          | 99                          |
| -48K                             | 10.0                 | 35                   | 7.9       | 45.0              | 5.7                          | 91                          |
| -50K                             | 12.0                 | 25                   | 2.5       | 29.0              | 3.3                          | 120                         |
| -52K                             | 15.0                 | 25                   | 2.5       | 24.0              | 3.8                          | 110                         |
| -54K                             | 18.0                 | 25                   | 2.5       | 21.0              | 4.2                          | 106                         |
| -56K                             | 22.0                 | 25                   | 2.5       | 18.0              | 4.7                          | 100                         |
| -58K                             | 27.0                 | 25                   | 2.5       | 17.0              | 5.7                          | 91                          |
| -60K                             | 33.0                 | 25                   | 2.5       | 15.0              | 6.2                          | 87                          |
| -62K                             | 39.0                 | 25                   | 2.5       | 13.0              | 8.1                          | 76                          |
| -64K                             | 47.0                 | 25                   | 2.5       | 12.0              | 9.8                          | 69                          |
| -66K                             | 56.0                 | 25                   | 2.5       | 11.0              | 12.0                         | 62                          |
| -68K                             | 68.0                 | 25                   | 2.5       | 10.0              | 13.8                         | 58                          |
| -70K                             | 82.0                 | 25                   | 2.5       | 9.0               | 19.0                         | 50                          |
| -72K                             | 100.0                | 25                   | 2.5       | 8.9               | 21.0                         | 47                          |
| <b>SERIES 2510 FERRITE CORE</b>  |                      |                      |           |                   |                              |                             |
| -74K                             | 120.0                | 15                   | 0.79      | 8.5               | 17.0                         | 52                          |
| -76K                             | 150.0                | 15                   | 0.79      | 7.6               | 19.0                         | 49                          |
| -78K                             | 180.0                | 15                   | 0.79      | 7.2               | 21.5                         | 46                          |
| -80K                             | 220.0                | 15                   | 0.79      | 6.8               | 32.0                         | 38                          |
| -82K                             | 270.0                | 15                   | 0.79      | 6.2               | 37.0                         | 35                          |
| -84K                             | 330.0                | 15                   | 0.79      | 5.3               | 47.0                         | 31                          |
| -86K                             | 390.0                | 15                   | 0.79      | 5.0               | 53.0                         | 30                          |
| -88K                             | 470.0                | 15                   | 0.79      | 4.6               | 60.0                         | 28                          |
| -90K                             | 560.0                | 15                   | 0.79      | 4.3               | 71.0                         | 25                          |
| -92K                             | 680.0                | 15                   | 0.79      | 3.8               | 83.0                         | 23                          |
| -94K                             | 820.0                | 15                   | 0.79      | 3.2               | 95.0                         | 22                          |
| -96K                             | 1000.0               | 15                   | 0.79      | 2.4               | 108.0                        | 20                          |

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

\*Complete part # must include series # PLUS the dash #

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)

**Made In the U.S.A.**