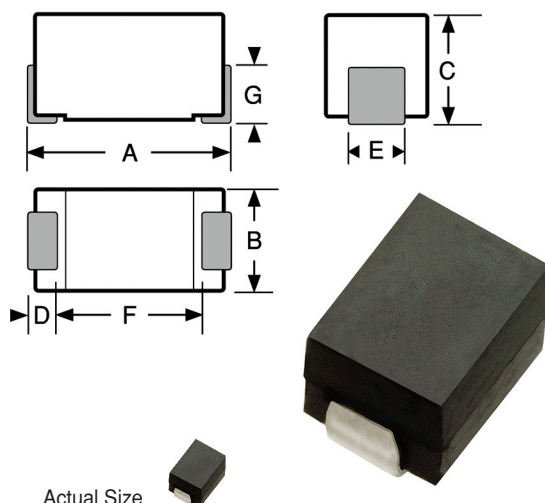


**SERIES****1331R  
1331****Shielded Surface Mount Inductors****Physical Parameters**

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.300 to 0.325    | 7.62 to 8.26     |
| B | 0.105 to 0.125    | 2.67 to 3.18     |
| C | 0.125 to 0.145    | 3.18 to 3.68     |
| D | 0.020 Min.        | 0.508 Min.       |
| E | 0.040 to 0.060    | 1.02 to 1.52     |
| F | 0.190 (Ref. only) | 4.83 (Ref. only) |
| G | 0.070 (Ref. only) | 1.78 (Ref. only) |

Dimensions "A" and "C" are over terminations

**Weight Max** (Grams) 0.30**Operating Temperature Range** -55°C to +105°C**Current Rating at 90°C Ambient** 15°C Rise**Maximum Power Dissipation at 90°C** 0.585 W**Incremental Current** Current level which causes a maximum of 5% decrease in inductance.**Coupling** 3% Max.**\*\*Note** Self Resonant Frequency (SRF) values for -101K to -331K are calculated and for reference only.**Marking** Delevan; dash number followed by an S; date code (YYWWL). Note: An R before the date code indicates a RoHS component.

Example: 1331R-683K

 DELEVAN  
 683 S  
 R 0719B
**Packaging** Tape & reel (16mm): 7" reel, 500 pieces max.; 13" reel, 2200 pieces max.**Made In the U.S.A.**

| DASH NUMBER*                                     | INDUCTANCE (μH) ±10% | TEST FREQUENCY (MHz) | Q MINIMUM | SRF MINIMUM (MHz) | DC RESISTANCE MAXIMUM (OHMS)** | CURRENT RATING MAXIMUM (mA) | INCREMENTAL CURRENT (mA) |
|--------------------------------------------------|----------------------|----------------------|-----------|-------------------|--------------------------------|-----------------------------|--------------------------|
| <b>SERIES 1331 IRON CORE - IRON SLEEVE</b>       |                      |                      |           |                   |                                |                             |                          |
| -101K                                            | 0.10                 | 45                   | 25.0      | 490.0**           | 0.10                           | 670                         | 670                      |
| -121K                                            | 0.12                 | 45                   | 25.0      | 430.0**           | 0.11                           | 635                         | 635                      |
| -151K                                            | 0.15                 | 45                   | 25.0      | 415.0**           | 0.12                           | 610                         | 610                      |
| -181K                                            | 0.18                 | 45                   | 25.0      | 375.0**           | 0.13                           | 585                         | 585                      |
| -221K                                            | 0.22                 | 45                   | 25.0      | 330.0**           | 0.15                           | 545                         | 545                      |
| -271K                                            | 0.27                 | 45                   | 25.0      | 300.0**           | 0.16                           | 530                         | 530                      |
| -331K                                            | 0.33                 | 44                   | 25.0      | 260.0**           | 0.18                           | 495                         | 495                      |
| -391K                                            | 0.39                 | 42                   | 25.0      | 230.0             | 0.19                           | 485                         | 485                      |
| -471K                                            | 0.47                 | 41                   | 25.0      | 220.0             | 0.21                           | 460                         | 460                      |
| -561K                                            | 0.56                 | 41                   | 25.0      | 210.0             | 0.23                           | 440                         | 440                      |
| -681K                                            | 0.68                 | 39                   | 25.0      | 180.0             | 0.24                           | 430                         | 430                      |
| -821K                                            | 0.82                 | 38                   | 25.0      | 165.0             | 0.27                           | 405                         | 405                      |
| -102K                                            | 1.00                 | 37                   | 25.0      | 150.0             | 0.30                           | 385                         | 385                      |
| -122K                                            | 1.20                 | 40                   | 7.9       | 130.0             | 0.73                           | 247                         | 247                      |
| -152K                                            | 1.50                 | 41                   | 7.9       | 115.0             | 0.86                           | 228                         | 228                      |
| -182K                                            | 1.80                 | 43                   | 7.9       | 105.0             | 0.95                           | 217                         | 217                      |
| -222K                                            | 2.20                 | 45                   | 7.9       | 95.0              | 1.10                           | 202                         | 202                      |
| -272K                                            | 2.70                 | 48                   | 7.9       | 90.0              | 1.20                           | 193                         | 193                      |
| -332K                                            | 3.30                 | 49                   | 7.9       | 80.0              | 1.30                           | 185                         | 185                      |
| -392K                                            | 3.90                 | 50                   | 7.9       | 75.0              | 1.50                           | 173                         | 173                      |
| -472K                                            | 4.70                 | 50                   | 7.9       | 70.0              | 2.40                           | 136                         | 136                      |
| -562K                                            | 5.60                 | 50                   | 7.9       | 60.0              | 2.90                           | 124                         | 124                      |
| -682K                                            | 6.80                 | 50                   | 7.9       | 55.0              | 3.20                           | 118                         | 118                      |
| -822K                                            | 8.20                 | 50                   | 7.9       | 53.0              | 3.60                           | 111                         | 111                      |
| -103K                                            | 10.0                 | 50                   | 7.9       | 50.0              | 4.00                           | 106                         | 106                      |
| <b>SERIES 1331 IRON CORE - FERRITE SLEEVE</b>    |                      |                      |           |                   |                                |                             |                          |
| -123K                                            | 12.0                 | 36                   | 2.5       | 35.0              | 3.00                           | 122                         | 122                      |
| -153K                                            | 15.0                 | 38                   | 2.5       | 30.0              | 3.40                           | 115                         | 115                      |
| -183K                                            | 18.0                 | 40                   | 2.5       | 26.0              | 3.80                           | 108                         | 108                      |
| -223K                                            | 22.0                 | 40                   | 2.5       | 24.0              | 4.90                           | 96                          | 96                       |
| -273K                                            | 27.0                 | 40                   | 2.5       | 21.0              | 5.80                           | 88                          | 88                       |
| -333K                                            | 33.0                 | 41                   | 2.5       | 20.0              | 6.50                           | 83                          | 83                       |
| -393K                                            | 39.0                 | 42                   | 2.5       | 19.0              | 7.90                           | 75                          | 75                       |
| -473K                                            | 47.0                 | 44                   | 2.5       | 16.0              | 9.30                           | 69                          | 69                       |
| -563K                                            | 56.0                 | 44                   | 2.5       | 15.0              | 11.0                           | 64                          | 64                       |
| -683K                                            | 68.0                 | 45                   | 2.5       | 13.0              | 12.0                           | 61                          | 61                       |
| -823K                                            | 82.0                 | 45                   | 2.5       | 11.0              | 13.0                           | 59                          | 59                       |
| -104K                                            | 100.0                | 40                   | 2.5       | 10.5              | 16.8                           | 51                          | 51                       |
| <b>SERIES 1331 FERRITE CORE - FERRITE SLEEVE</b> |                      |                      |           |                   |                                |                             |                          |
| -124K                                            | 120.0                | 31                   | 0.79      | 13.0              | 5.80                           | 88                          | 27                       |
| -154K                                            | 150.0                | 33                   | 0.79      | 12.0              | 7.90                           | 75                          | 24                       |
| -184K                                            | 180.0                | 33                   | 0.79      | 11.0              | 9.40                           | 69                          | 22                       |
| -224K                                            | 220.0                | 35                   | 0.79      | 10.0              | 11.0                           | 64                          | 20                       |
| -274K                                            | 270.0                | 35                   | 0.79      | 9.0               | 12.0                           | 61                          | 18                       |
| -334K                                            | 330.0                | 35                   | 0.79      | 8.0               | 16.0                           | 53                          | 16                       |
| -394K                                            | 390.0                | 35                   | 0.79      | 7.8               | 21.0                           | 46                          | 14                       |
| -474K                                            | 470.0                | 35                   | 0.79      | 7.5               | 24.0                           | 43                          | 13                       |
| -564K                                            | 560.0                | 35                   | 0.79      | 7.0               | 28.0                           | 40                          | 12                       |

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

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