

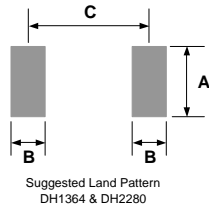
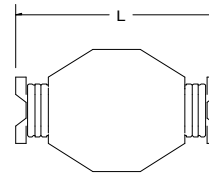
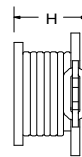
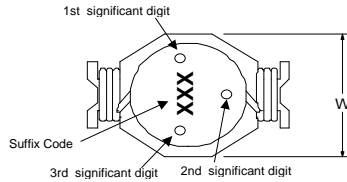
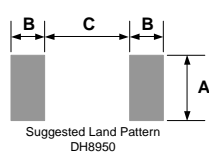
Series Number
 DH8950
 DH1364
 DH2280



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 Watertown, Watertown, SD 57203
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SMD Unshielded Self-Leaded Inductor ; Part Numbering Sequence: (Series Number) - (Suffix Code)(Tolerance), example DH1364-100M
 Bulk Packaging add (-B) to end of Part Numbering Sequence. example DH1364-100M-B



Parts will be marked with Significant Digit Dots OR Suffix code

| Series Number | Units | Maximum Dimensions | | | Nominal Dimensions | | |
|---------------|--------|--------------------|-----------|----------|--------------------|----------|-----------|
| | | L | W | H | A | B | C |
| DH8950 | inches | 0.362" | 0.252" | 0.197" | 0.160" | 0.075" | 0.200" |
| | [mm] | [9.19] | [6.40] | [5.00] | [4.06] | [1.91] | [5.08] |
| DH1364 | inches | 0.522" | 0.392" | 0.250" | 0.160" | 0.060" | 0.400" |
| | [mm] | [13.26] | [9.96] | [6.35] | [4.06] | [1.52] | [10.16] |
| DH2280 | inches | 0.880" | 0.640" | 0.315" | 0.340" | 0.125" | 0.690" |
| | [mm] | [22.35] | [16.26] | [8.00] | [8.64] | [3.18] | [17.53] |

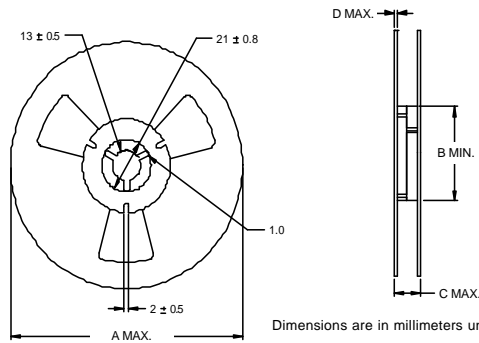
- Features:**
- High energy storage and low resistance
 - Ideal for DC-DC step-up or step-down conversion
 - Reliable surface mounting, flat top for pick and place
 - Robust temperature deflection to prevent

| L ¹ μH | Suffix Codes | DH8950 | | | | DH1364 | | | | DH2280 | | | | Significant Digit Dot Code | | |
|----------------------|-----------------|------------------|-------------------------------|-------------------------------|---------------------|------------------|-------------------------------|-------------------------------|---------------------|------------------|-------------------------------|-------------------------------|---------------------|-------------------------------|--------|--------|
| | | DCR ² | I _{SAT} ⁴ | I _{RMS} ⁵ | Tolerance | DCR ² | I _{SAT} ³ | I _{RMS} ⁵ | Tolerance | DCR ² | I _{SAT} ³ | I _{RMS} ⁵ | Tolerance | 1st | 2nd | 3rd |
| | | W | A | | Suffix ⁶ | W | A | | Suffix ⁶ | W | A | | Suffix ⁶ | | | |
| 0.33 | R33 | | | | | 0.002 | 20.0 | 16.0 | M | | | | | Orange | Orange | Brown |
| 0.56 | R56 | 0.010 | 7.7 | 6.00 | M | | | | | | | | | Green | Blue | Brown |
| 0.68 | R68 | | | | | 0.005 | 13.0 | 12.0 | M | | | | | Blue | Grey | Brown |
| 0.78 | R78 | | | | | | | | | 0.0026 | 30.0 | 15.0 | M | Violet | Grey | Brown |
| 1.0 | 1R0 | | | | | 0.006 | 11.0 | 10.0 | M | | | | | Brown | Black | Red |
| 1.2 | 1R2 | 0.017 | 5.3 | 4.40 | M | | | | | | | | | Brown | Red | Red |
| 1.5 | 1R5 | | | | | 0.008 | 9.0 | 9.0 | M | 0.0040 | 25.0 | 15.0 | M | Brown | Green | Red |
| 2.2 | 2R2 | 0.035 | 3.5 | 3.10 | M | 0.011 | 7.8 | 7.4 | M | 0.0061 | 20.0 | 12.0 | M | Red | Red | Red |
| 2.7 | 2R7 | | | | | 0.012 | 7.0 | 6.6 | M | | | | | Red | Violet | Red |
| 3.3 | 3R3 | | | | | 0.014 | 6.4 | 5.9 | M | 0.0086 | 17.0 | 10.0 | M | Orange | Orange | Red |
| 3.9 | 3R9 | | | | | | | | | 0.0100 | 15.0 | 9.0 | M | Orange | White | Red |
| 4.7 | 4R7 | 0.054 | 2.6 | 2.20 | M | 0.018 | 5.4 | 4.8 | M | 0.0140 | 13.0 | 8.4 | M | Yellow | Violet | Red |
| 6.0 | 6R0 | | | | | | | | | 0.0170 | 12.0 | 7.5 | M | Blue | Black | Red |
| 6.8 | 6R8 | | | | | 0.035 | 3.6 | 4.5 | M | | | | | Blue | Grey | Red |
| 7.8 | 7R8 | | | | | | | | | 0.0180 | 11.0 | 7.5 | M | Violet | Grey | Red |
| 10 | 100 | 0.111 | 1.9 | 1.50 | M | 0.040 | 3.30 | 4.50 | M | 0.0260 | 10.0 | 6.0 | M | Brown | Black | Orange |
| 15 | 150 | 0.170 | 1.5 | 1.20 | M | 0.060 | 2.40 | 3.50 | M | 0.0320 | 8.0 | 4.4 | M | Brown | Green | Orange |
| 22 | 220 | 0.250 | 1.20 | 1.00 | M | 0.080 | 2.00 | 2.80 | M | | | | | Red | Red | Orange |
| 33 | 330 | 0.370 | 0.99 | 0.82 | M | 0.150 | 1.70 | 2.10 | M | | | | | Orange | Orange | Orange |
| 47 | 470 | 0.470 | 0.87 | 0.72 | M | 0.280 | 1.40 | 1.70 | M | | | | | Yellow | Violet | Orange |
| 68 | 680 | | | | | 0.300 | 1.20 | 1.50 | M | | | | | Blue | Grey | Orange |
| 100 | 101 | | | | | 0.400 | 0.95 | 1.2 | M | | | | | Brown | Black | Yellow |

- 1) Tolerance ±20%, Tested at 100kHz, 100mVrms @20°C. DH8950 series tested at 100kHz, 250mVrms @20°C.
- 2) DCRs (DC resistances) are maximums @20°C.
- 3) DC (Direct Current) current applied to produce a typical 10% drop from measured nominal inductance.
- 4) DC (Direct Current) current applied to produce a typical 30% drop from measured nominal inductance.
- 5) Current applied to produce a typical 40°C temperature rise from measured nominal inductance.
- 6) Tolerance M = ±20%

Specifications subject to change without notice

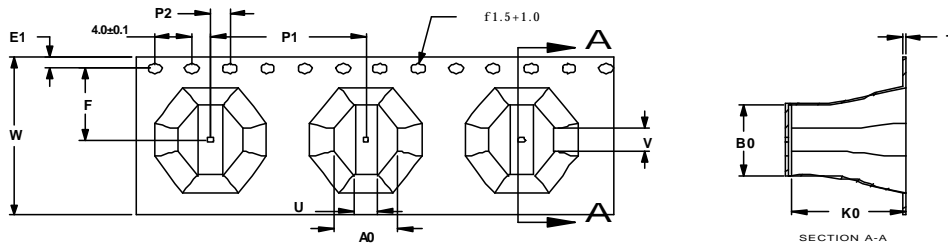
Call Toll Free: 888-978-2638 Website: www.coev.net



Dimensions are in millimeters unless specified.

| Series Number | Reel dimensions | | | | Reel Qty | Packaging Specification | |
|---------------|-----------------|------------|-----------|-----------|------------|-------------------------|---------|
| | Units | A | B | C | | | D |
| DH8950 | in. | (B) 14.17" | (B) 3.94" | 0.882" | (B) 0.098" | 1000 | 90-0061 |
| | [mm] | [360] | [100.0] | [22.4] | [2.50] | | |
| DH1364 | in. | (B) 14.17" | (B) 3.94" | (B) 1.20" | (B) 0.098" | 750 | 90-0055 |
| | [mm] | [360] | [100.0] | [30.4] | [2.50] | | |
| DH2280 | in. | (B) 14.17" | (B) 3.94" | (B) 1.98" | (B) 0.098" | 250 | 90-0064 |
| | [mm] | [360] | [100.0] | [50.4] | [2.50] | | |

PACKAGING NOTE: Only pressure sensitive cover tape is to be used.



| Series | $A0 \pm 0.1$ | $U \pm 0.1$ | $V \pm 0.1$ | $P1 \pm 0.1$ | $P2 \pm 0.1$ | $W \pm 0.3$ | $F \pm 0.1$ | $E1 \pm 0.1$ | $B0 \pm 0.1$ | $K0 \pm 0.05$ | $T \pm 0.05$ |
|--------|--------------|-------------|-------------|--------------|--------------|-------------|-------------|--------------|--------------|---------------|--------------|
| DH8950 | 6.65 | 4.70 | 2.90 | 12.00 | 2.00 | 16.00 | 7.50 | 1.75 | 9.45 | 4.70 | 0.35 |
| DH1364 | 10.30 | 5.80 | 4.00 | 16.00 | 2.00 | 24.00 | 11.50 | 1.75 | 13.50 | 5.70 | 0.35 |
| DH2280 | 15.40 | 8.10 | 5.30 | 24.00 | 2.00 | 44.00 | 20.20 | 1.75 | 22.50 | 6.90 | 0.35 |

Customer Packaging Specifications
For Print Distribution to Customers

| Series | Revision |
|------------------|----------|
| DH SERIES | B |

Sheet 2 of 3

| Item | Specification | Test Method/Condition |
|--|--|---|
| Environmental | | |
| Static Humidity | After exposure part remains within specified electrical parameters for L, Q and DCR. | Precondition at 25°C for 60 minutes. Expose parts to an environment of +40°C with 90 to 95% R.H. for 240 hours. |
| Storage Life | After exposure part remains within specified electrical parameters for L, Q and DCR. | Subject parts to an environment of 85°C 85% R.H. for 168 hours. After exposure allow parts to dry for 4 hours before measurements are taken. |
| Temperature Cycle | After exposure part remains within specified electrical parameters for L, Q and DCR. | 10 cycles (Air to Air) 1 cycle shall consist of: 30 minutes exposure to +85°C 30 minutes exposure to -40°C Allow 20 minutes transition between extremes. |
| Temperature Shock | After exposure part remains within specified electrical parameters for L, Q and DCR. | 10 cycles (Air to Air) 1 cycle shall consist of: 30 minutes exposure to -55°C 30 minutes exposure to +125°C 15 seconds maximum transition between temperatures |
| General | | |
| Storage Temperature Range | -40°C to +85°C | |
| Operating Temperature Range | -40°C to +85°C | |
| Flammability | IEC 695-2-2 | Withstands needle-flame test |
| Other | | |
| Vibration | After exposure part remains within specified electrical parameters for L, Q and DCR. | 1 cycle of 30 minutes of the following: 5 - 7 Hz constant displacement of 0.75 inches, 5 minutes 7 - 30 Hz constant acceleration of 1.5 Gs, 10 minutes 31 - 50 Hz constant displacement of 0.33 inches, 5 minutes 50 - 500 Hz constant acceleration of 1.2 Gs, 10 minutes |
| Mechanical Shock | After exposure part remains within specified electrical parameters for L, Q and DCR. | DH8950 Series - 2000 Gs per axis, 2 directions DH1364 Series - 500 Gs per axis, 2 directions DH2280 Series - 500 Gs per axis, 2 directions |
| Solderability | Wetting shall cover 90% minimum of each termination | Dip pads in RMA flux, 63/37 solder (Sn/Pb) at 232°C for 5 seconds ±2 seconds. |
| Component Adhesion (Push Test) | Component shall withstand 6 lb. push force minimum without delaminating from mounting surface. | Apply and measure force with a digital force gauge set. |
| Resistance to Solvent | | Withstands 6 minutes of alcohol. Withstands 3 minutes forced spray Freon TMS |
| Chemical | | |
| Ionic Contamination | Conductivity: pH: Chlorides: Sodium: Potassium: | 11 μOhms/cm maximum 5.5 to 9 65 ppm maximum 20 ppm maximum 10 ppm maximum |
| For Print Distribution to Customers | | Series |
| | | DH SERIES |
| | | Revision |
| | | B |
| Sheet 3 of 3 | | |