

Series Number

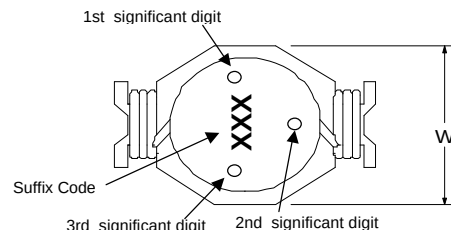
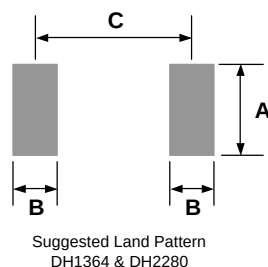
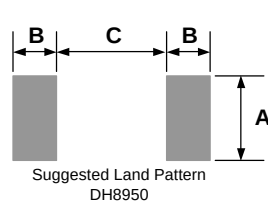
DH8950
DH1364
DH2280



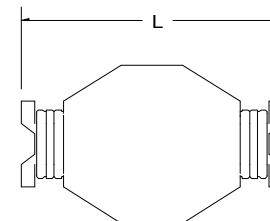
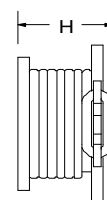
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Watertown, Watertown, SD 57203
Toll free: 88 Toll free: 888-978-2640
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SMD Unshielded Self-Leaded Inductor ; Part Numbering Sequence: (Series Number) - (Suffix Code)(Tolerance), example DH1364-100M
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:

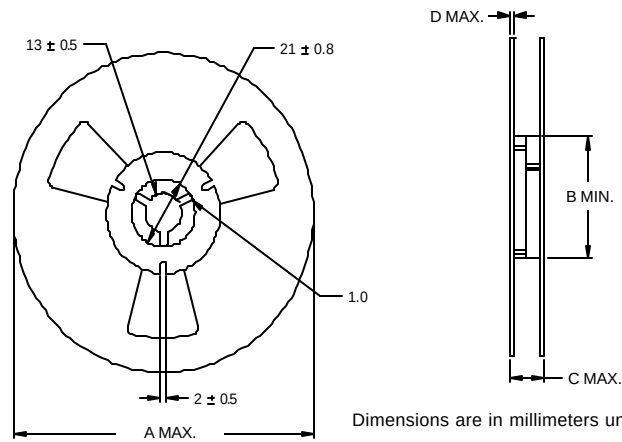
- High energy storage and low resistance
- Ideal for DC-DC step-up or step-down conversion
- Reliable surface mounting, flat top for pick and place
- Robust temperature deflection to prevent

L ¹ μH	Suffix Codes	DH8950				DH1364				DH2280				Significant Digit		
		DCR ² W	I _{SAT} ⁴ A	I _{RMS} ⁵	Tolerance Suffix ⁶	DCR ² W	I _{SAT} ³ A	I _{RMS} ⁵	Tolerance Suffix ⁶	DCR ² W	I _{SAT} ³ A	I _{RMS} ⁵	Tolerance Suffix ⁶	1st	2nd	3rd
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

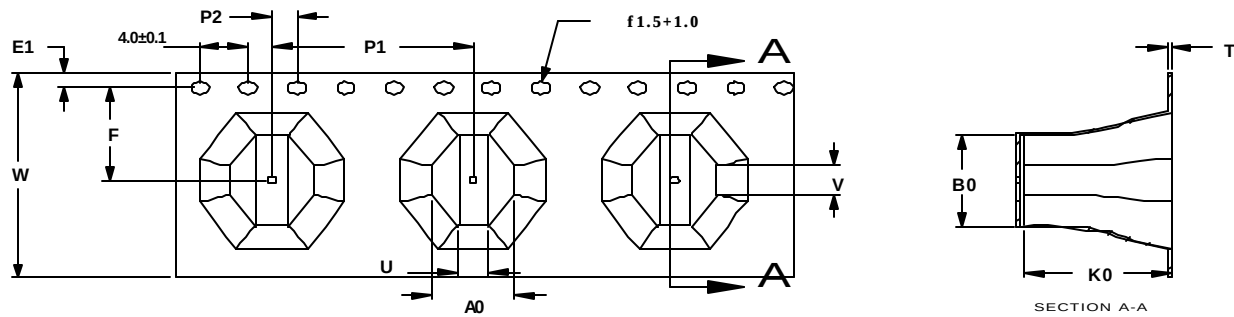
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Dimensions are in millimeters unless specified.

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 ± 0.1	U ± 0.1	V ± 0.1	P1 ± 0.1	P2 ± 0.1	W ± 0.3	F ± 0.1	E1 ± 0.1	B0 ± 0.1	K0 ± 0.05	T ± 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

DH SERIES

Revision

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		Dip pads in RMA flux, 63/37 solder (Sn/Pb) at 232°C for 5 seconds ±2 seconds.
	Wetting shall cover 90% minimum of each termination	
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		