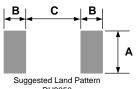
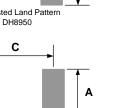


3004 9th Av 3005 9th Avenue SW Watertown, Watertown, SD 57203 Toll free: 88 Toll free: 888-978-2640 Ph: 605-88 Ph: 605-886-3328 Fax: 605-88 Fax: 605-886-8997



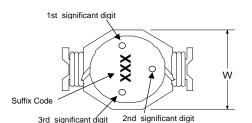
SMD Unshielded Self-Leaded Inductor; Part Numbering Sequence: (Series Number) - (Suffix Code)(Tolerance), example DH1364-100M Bulk Packaging add (-B) to end of Part Numbering Sequence. example DH1364-100M-B



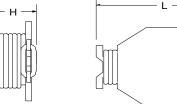




Suggested Land Pattern DH1364 & DH2280







Parts will be marked with Significant Digit Dots OR Suffix code

Series		Maximum I	Dimensions	Nominal Dimensions			
Number	Units	L	W	Н	Α	В	С
DH8950	inches	0.362"	0.252"	0.197"	0.160"	0.075"	0.200"
D110930	[ 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"
D111304	[ 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"
DITEEOO	[ mm ]	[ 22.35 ]	[ 16.26 ]	[ 8.00 ]	[ 8.64 ]	[ 3.18 ]	[ 17.53 ]

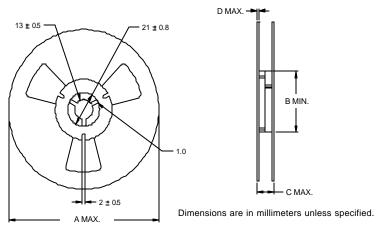
## Features:

- High energy sotrage 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

			DH8	3950		DH1364			DH2280				Significant Digit			
L <sup>1</sup>	Suffix	DCR <sup>2</sup>	I <sub>SAT</sub> 4	I <sub>RMS</sub> <sup>5</sup>	Tolerance	DCR <sup>2</sup>	I <sub>SAT</sub> 3	I <sub>RMS</sub> <sup>5</sup>	Tolerance	DCR <sup>2</sup>	I <sub>SAT</sub> 3	I <sub>RMS</sub> <sup>5</sup>	Tolerance		<b>Dot Code</b>	
μH	Codes	W	Α		Suffix <sup>6</sup>	W	Α		Suffix <sup>6</sup>	W	Α		Suffix <sup>6</sup>	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	М					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	М	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	М					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	М					Brown	Black	Yellow

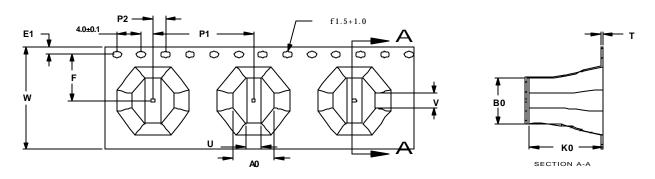
- 1) Tolerance ±20%, Tested at 100kHz, 100mVrms @20°C. DH8950 series tested at 100kHz, 250mVrms @20°C.
- 2) DCRs (DC resistances) are maximums @20°C.
- 3) DC (Direct Current) current applied to produce a typical 10% drop from measured nominal inductance.
- 4) DC (Direct Current) current applied to produce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



Series				Reel	Packaging		
Number	Units	Α	В	С	D	Qty	Specification
DH8950	in.	(B) 14.17"	(B) 3.94"	0.882"	(B) 0.098"	1000	90-0061
рпоээо	[mm]	[ 360 ]	[ 100.0 ]	[ 22.4 ]	[ 2.50 ]	1000	90-0061
DH1364	in.	(B) 14.17"	(B) 3.94"	(B) 1.20"	(B) 0.098"	750	90-0055
DH 1304	[mm]	[ 360 ]	[ 100.0 ]	[ 30.4 ]	[ 2.50 ]	750	90-0055
DH2280	in.	(B) 14.17"	(B) 3.94"	(B) 1.98"	(B) 0.098"	250	90-0064
DH2200	[mm]	[ 360 ]	[ 100.0 ]	[ 50.4 ]	[ 2.50 ]	250	90-0004

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



Series	$A0 \pm 0.1$	U ± 0.1	V ± 0.1	P1 ± 0.1	P2 ± 0.1	$W \pm 0.3$	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	Revision				
DH SERIES	В				
Sheet 2 of 3					

Item	Specification	Test Meth	od/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 hou After exposure allow parts to dry for 4 hours before measureme 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.	30 minutes exposure 30 minutes exposure		ures		
General						
Storage Temperature Range	-40°C to +85°C					
Operating Temperature Range	-40°C to +85°C					
Flammability	IEC 695-2-2	Withstands needle-fla	me test			
Other						
Vibration	After exposure part remains within specified electrical parameters for L, Q and DCR.	7 - 30 Hz constant ac 31 - 50 Hz constant d	of the following: clacement of 0.75 inches, 5 m celeration of 1.5 Gs, 10 minu isplacement of 0.33 inches, 8 acceleration of 1.2 Gs, 10 mi	tes 5 minutes		
Mechanical Shock	After exposure part remains within specified electrical parameters for L, Q and DCR.	DH1364 Series - 500	OGs per axis, 2 directions Gs per axis, 2 directions 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 fo	orce with a digital force gauge	e set.		
Resistance to Solvent		Withstands 6 minutes	of alcohol.			
		Withstands 3 minutes	forced spray Freon TMS			
Chemical						
Ionic Contamination	Conductivity:	11 µOhms/cm maxim	um			
	pH: Chlorides:	5.5 to 9 65 ppm maximum				
	Sodium:	20 ppm maximum				
	Potassium:	10 ppm maximum				
			Series	Revision		
				T		

For Print Distribution	to Customers
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Series	Revision
DH SERIES	В
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