

MINIATURE SMD CHIP INDUCTORS / DL4 TYPE

FEATURES

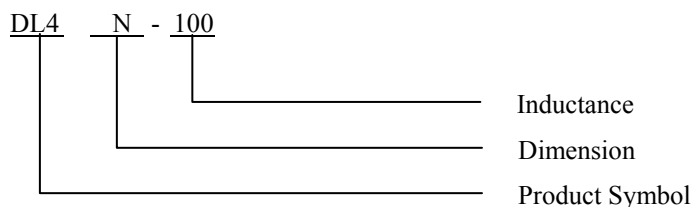
- ◆ Winding on a special ferrite core.
- ◆ Low DC resistance, high current capacity, and high impedance characteristics.
- ◆ Excellent for use as choke coil in DC power supply circuits.
- ◆ Excellent solder heat resistance. Both flow and reflow soldering methods can be employed.



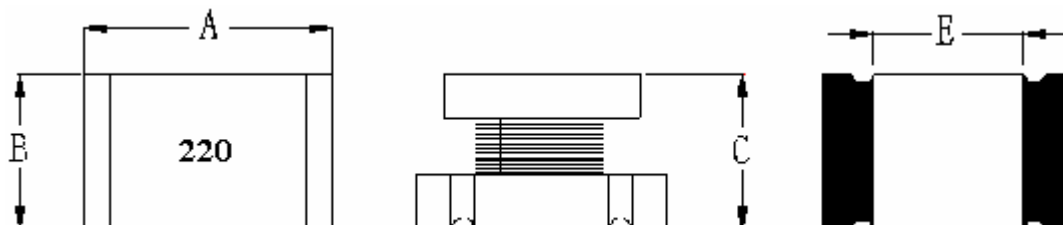
APPLICATIONS

- ◆ Notebook and PDAs
- ◆ Flash Memory programs
- ◆ Step-up and step-down converters

ORDERING CODE



SHAPES



DIMENSIONS (UNIT: mm/inch)

Part No.	A	B	C	E (Ref.)
DL4J	2.0 ± 0.2	1.5 ± 0.2	1.7 ± 0.2	0.7
DL4K	2.5 ± 0.2	2.0 ± 0.2	1.8 ± 0.2	0.8
DL4L	3.2 ± 0.3	1.6 ± 0.3	1.8 ± 0.3	0.8
DL4M	3.2 ± 0.3	2.5 ± 0.3	2.0 ± 0.3	0.8
DL4N	4.5 ± 0.3	3.2 ± 0.3	2.8 ± 0.3	1.4
DL4O	5.7 ± 0.3	5.0 ± 0.3	4.7 ± 0.3	1.7

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ELECTRICAL CHARACTERISTICS FOR DL4J

Part No.	Inductance (μ H)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max
DL4J-1	$1.00 \pm 10\%$	7.96	0.208	700
DL4J-2.2	$2.20 \pm 10\%$	7.96	0.299	620
DL4J-4.7	$4.70 \pm 10\%$	7.96	0.520	430
DL4J-10	$10.0 \pm 10\%$	2.52	0.910	300
DL4J-22	$22.0 \pm 10\%$	2.52	2.210	220

ELECTRICAL CHARACTERISTICS FOR DL4K

Part No.	Inductance (μ H)	Test Frequency (MHz)	RDC (Ω) Max	IDC (mA) Max
DL4K-1	$1.0 \pm 20\%$	7.96	0.442	475
DL4K-1.5	$1.5 \pm 20\%$	7.96	0.546	435
DL4K-2.2	$2.2 \pm 20\%$	7.96	0.650	390
DL4K-3.3	$3.3 \pm 20\%$	7.96	0.845	340
DL4K-4.7	$4.7 \pm 20\%$	7.96	1.040	285
DL4K-6.8	$6.8 \pm 20\%$	7.96	1.300	275
DL4K-10	$10 \pm 10\%$	2.52	2.197	210
DL4K-15	$15 \pm 10\%$	2.52	2.860	175
DL4K-22	$22 \pm 10\%$	2.52	3.640	160
DL4K-33	$33 \pm 10\%$	2.52	5.460	120

ELECTRICAL CHARACTERISTICS FOR DL4L

Part No.	Inductance (μ H)	RDC (Ω) Max	IDC (mA) Max
DL4L-0.22	$0.22 \pm 20\%$	0.14	850
DL4L-0.47	$0.47 \pm 20\%$	0.21	700
DL4L-1	$1.0 \pm 20\%$	0.364	510
DL4L-2.2	$2.2 \pm 10\%$	0.533	430
DL4L-4.7	$4.7 \pm 10\%$	0.845	340
DL4L-10	$10 \pm 10\%$	1.69	230
DL4L-22	$22 \pm 10\%$	3.90	160
DL4L-47	$47 \pm 10\%$	10.40	100
DL4L-100	$100 \pm 10\%$	15.6	80

★ Test Frequency: 1.0MHZ

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ELECTRICAL CHARACTERISTICS FOR DL4M

Part No.	Inductance (uH)	RDC (Ω) Max	IDC (mA) Max
DL4M-1	1.0 ± 20%	0.117	800
DL4M-2.2	2.2 ± 20%	0.169	600
DL4M-4.7	4.7 ± 20%	0.260	450
DL4M-10	10 ± 10%	0.572	300
DL4M-22	22 ± 10%	0.923	250
DL4M-47	47 ± 10%	1.690	170
DL4M-100	100 ± 10%	4.550	100
DL4M-220	220 ± 10%	10.92	70
DL4M-330	330 ± 10%	13.00	60
DL4M-390	390 ± 10%	22.00	60
DL4M-470	470 ± 10%	24.70	60
DL4M-560	560 ± 10%	28.60	60

★ Test Frequency: 1.0MHZ

ELECTRICAL CHARACTERISTICS FOR DL4N

Part No.	Inductance (uH)	RDC (Ω) Max	IDC (mA) Max
DL4N-4.7	4.7 ± 20%	0.15	750
DL4N-6.8	6.8 ± 20%	0.20	720
DL4N-10	10 ± 10%	0.24	650
DL4N-15	15 ± 10%	0.32	570
DL4N-22	22 ± 10%	0.60	420
DL4N-33	33 ± 10%	1.00	310
DL4N-47	47 ± 10%	1.10	280
DL4N-68	68 ± 10%	1.70	220
DL4N-100	100 ± 10%	2.20	190
DL4N-150	150 ± 10%	3.50	130
DL4N-220	220 ± 10%	4.00	110
DL4N-330	330 ± 10%	6.80	100
DL4N-470	470 ± 10%	11.80	80

★ Test Frequency: 1.0MHZ

ELECTRICAL CHARACTERISTICS FOR DL4O

Part No.	Inductance (uH)	Test Frequency	RDC (Ω) Max	IDC (A) Max
DL4O-1	1.0 ± 20%	1.0 MHZ	0.020	9.00
DL4O-1.5	1.5 ± 20%	1.0 MHZ	0.028	7.80
DL4O-2.2	2.2 ± 20%	1.0 MHZ	0.035	6.54
DL4O-3.3	3.3 ± 20%	1.0 MHZ	0.054	5.48

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DL40-4.7	4.7 ± 20%	1.0 MHZ	0.080	4.48
DL40-6.8	6.8 ± 20%	1.0 MHZ	0.124	3.57
DL40-10	10 ± 20%	1.0 MHZ	0.167	3.06
DL40-15	15 ± 20%	1.0 MHZ	0.215	2.63
DL40-22	22 ± 20%	1.0 MHZ	0.322	2.21
DL40-33	33 ± 20%	1.0 MHZ	0.448	1.78
DL40-47	47 ± 20%	1.0 MHZ	0.586	1.50
DL40-68	68 ± 20%	1.0 MHZ	0.806	1.30
DL40-100	100 ± 10%	1.0 MHZ	1.10	1.05
DL40-150	150 ± 10%	1.0 MHZ	1.575	0.94
DL40-220	220 ± 10%	1.0 MHZ	2.550	0.72
DL40-330	330 ± 10%	1.0 MHZ	3.600	0.60
DL40-390	390 ± 10%	1.0 KHZ	4.000	0.55

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