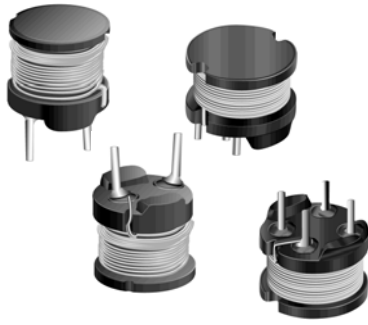


# DIP Power Inductor –DRGH Series



## Applications

- Personal computers.
- Variety of battery power equipment.
- DC power supply circuits.

## Inductance and rated current ranges

- |           |                  |            |
|-----------|------------------|------------|
| ● DRGH654 | 22~1000 $\mu$ H  | 0.90~0.13A |
| ● DRGH664 | 22~1000 $\mu$ H  | 1.27~0.19A |
| ● DRGH855 | 10~10000 $\mu$ H | 2.50~0.08A |
| ● DRGH875 | 10~10000 $\mu$ H | 2.90~0.08A |
| ● DRGH895 | 10~47000 $\mu$ H | 2.60~0.04A |
| ● DRGH106 | 10~1000 $\mu$ H  | 3.60~0.36A |
| ● DRGH108 | 10~1000 $\mu$ H  | 4.50~0.45A |
| ● DRGH110 | 10~1000 $\mu$ H  | 5.30~0.53A |

### Test equipments:

L&Q:HP4284A Precision LCR meter.

SRF:HP4291B RF Impedance Analyzer

DCR: Milli-ohm meter

Electrical Specification at 25°C

## Features

- Density design, small size, and low cost.
- Comparatively range rated current and high inductance.
- Low DCR and high dip stability.

## Product Identification

**DRGH 654 K B 100**

(1) (2) (3) (4) (5)

(1)Type: Dip Choke Coils

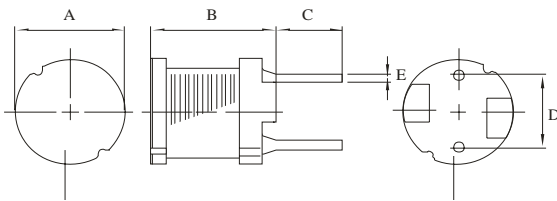
(2)Type: core

(3) Inductance tolerance J=±5% K= ±10% M=±20%

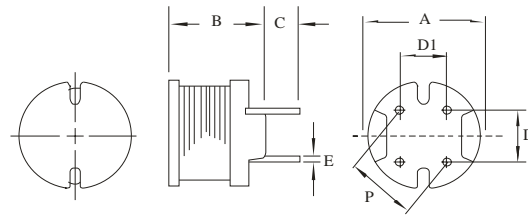
(4) Package: bulk.

(5) Inductance: 100 for 10 $\mu$ H

## Dimension



DRGH 654/664/855/875/895



DRGH 106/108/110

Unit:mm

Codes	A	B	C	D	D1	E	P
DRGH654	6.0±0.5	5.0 Max	4.0±1.0	4.0±0.3	–	0.50±0.1	–
DRGH664	6.0±0.5	6.5 Max	4.0±1.0	4.0±0.3	–	0.50±0.1	–
DRGH855	7.8±0.5	5.5 Max	5.0±1.0	5.0±0.3	–	0.70±0.1	–
DRGH875	7.8±0.5	7.5 Max	5.0±1.0	5.0±0.3	–	0.70±0.1	–
DRGH895	7.8±0.5	9.5 Max	5.0±1.0	5.0±0.3	–	0.70±0.1	–
DRGH106	10.0±0.5	6.0±0.5	3.5±1.0	5.0±0.3	4.0±0.3	0.70±0.1	6.40±0.5
DRGH108	10.0±0.5	8.0±0.5	3.5±1.0	5.0±0.3	4.0±0.3	0.70±0.1	6.40±0.5
DRGH110	10.0±0.5	10.0±0.5	3.5±1.0	5.0±0.3	4.0±0.3	0.70±0.1	6.40±0.5

## Electrical Characteristics

### DRGH 654 / 664 / 855 / 875 TYPE

Part No.	L1 (μH)	Test Freq. (KHz)	DC Resistance (Ω)Max				Rated DC Current (A) Max			
			654	664	855	875	654	664	855	875
100M	10	100			0.07	0.05			2.50	2.90
120M	12	100			0.08	0.06			2.40	2.50
150M	15	100			0.09	0.07			2.10	2.20
180M	18	100			0.10	0.08			2.00	1.90
220M	22	100	0.18	0.11	0.12	0.09	0.90	1.27	1.70	1.80
270M	27	100	0.21	0.14	0.14	0.11	0.81	1.14	1.60	1.70
330M	33	100	0.27	0.17	0.17	0.13	0.74	1.03	1.40	1.50
390M	39	100	0.29	0.19	0.21	0.14	0.68	0.95	1.30	1.30
470M	47	100	0.34	0.23	0.24	0.15	0.62	0.87	1.20	1.30
560M	56	100	0.42	0.26	0.31	0.18	0.57	0.80	1.10	1.20
680M	68	100	0.48	0.28	0.34	0.20	0.51	0.72	1.00	1.10
820M	82	100	0.55	0.39	0.40	0.24	0.47	0.66	0.93	1.00
101K	100	1	0.68	0.43	0.52	0.28	0.42	0.59	0.81	0.89
121K	120	1	0.77	0.54	0.59	0.36	0.39	0.54	0.76	0.81
151K	150	1	0.95	0.64	0.71	0.42	0.35	0.48	0.67	0.72
181K	180	1	1.15	0.74	0.89	0.57	0.32	0.44	0.62	0.66
221K	220	1	1.30	0.96	1.04	0.63	0.29	0.40	0.54	0.57
271K	270	1	1.55	1.12	1.28	0.88	0.26	0.36	0.49	0.51
331K	330	1	2.18	1.48	1.47	1.05	0.23	0.33	0.44	0.46
391K	390	1	2.47	1.66	1.67	1.17	0.21	0.30	0.41	0.44
471K	470	1	2.92	1.91	1.95	1.34	0.20	0.27	0.38	0.41
561K	560	1	3.97	2.31	2.83	1.72	0.18	0.25	0.35	0.36
681K	680	1	4.57	2.67	3.25	1.96	0.16	0.23	0.32	0.33
821K	820	1	5.28	3.10	3.82	2.56	0.15	0.21	0.31	0.30
102K	1000	1	7.06	4.45	5.28	2.94	0.13	0.19	0.25	0.27
122K	1200	1			6.03	4.04			0.23	0.24
152K	1500	1			7.15	4.70			0.21	0.22
182K	1800	1			8.26	5.05			0.20	0.20
222K	2200	1			11.1	6.25			0.18	0.18
272K	2700	1			13.1	8.72			0.16	0.16
332K	3300	1			15.9	10.6			0.14	0.15
392K	3900	1			18.0	14.2			0.13	0.14
472K	4700	1			23.9	16.7			0.12	0.12
562K	5600	1			26.8	18.7			0.11	0.11
682K	6800	1			31.7	21.8			0.098	0.10
822K	8200	1			46.5	28.7			0.088	0.093
103K	10000	1			55.7	33.0			0.081	0.084

1. Rated DC Current: The current when the inductance decrease to 90% of its initial value. (Ta=25°C)

2. Operating temperature range -40~105°C.

## Electrical Characteristics

### DRGH 895 / 106 / 108 / 110 TYPE

Part No.	L1 (μH)	Test Freq. (KHz)	DC Resistance (Ω)Max				Rated DC Current (A) Max			
			895	106	108	110	895	106	108	110
100M	10	100	0.04	0.040	0.027	0.022	2.60	3.60	4.50	5.30
120M	12	100	0.04	0.044	0.031	0.023	2.60	3.30	4.10	4.90
150M	15	100	0.05	0.058	0.036	0.026	2.10	2.90	3.70	4.40
180M	18	100	0.05	0.064	0.049	0.033	2.00	2.70	3.40	4.00
220M	22	100	0.06	0.088	0.055	0.037	1.70	2.40	3.10	3.60
270M	27	100	0.06	0.100	0.062	0.048	1.60	2.20	2.80	3.30
330M	33	100	0.07	0.110	0.078	0.055	1.40	2.00	2.50	2.90
390M	39	100	0.08	0.140	0.087	0.073	1.40	1.80	2.30	2.70
470M	47	100	0.10	0.160	0.099	0.083	1.30	1.70	2.10	2.50
560M	56	100	0.11	0.190	0.130	0.092	1.20	1.50	1.90	2.30
680M	68	100	0.14	0.220	0.140	0.120	1.10	1.40	1.70	2.10
820M	82	100	0.16	0.290	0.160	0.140	1.00	1.30	1.60	1.90
101K	100	1	0.19	0.320	0.210	0.160	0.90	1.30	1.40	1.70
121K	120	1	0.22	0.380	0.240	0.200	0.82	1.20	1.30	1.50
151K	150	1	0.27	0.500	0.320	0.230	0.74	1.00	1.20	1.40
181K	180	1	0.31	0.560	0.350	0.310	0.71	0.84	1.10	1.30
221K	220	1	0.38	0.780	0.450	0.340	0.64	0.76	0.96	1.10
271K	270	1	0.53	0.920	0.610	0.400	0.57	0.69	0.87	1.00
331K	330	1	0.61	1.100	0.690	0.520	0.51	0.62	0.79	0.93
391K	390	1	0.69	1.300	0.780	0.650	0.48	0.57	0.72	0.86
471K	470	1	0.89	1.500	1.000	0.710	0.43	0.52	0.66	0.78
561K	560	1	1.01	1.900	1.200	1.000	0.40	0.48	0.60	0.71
681K	680	1	1.18	2.200	1.400	1.100	0.35	0.43	0.55	0.65
821K	820	1	1.57	2.600	1.800	1.300	0.32	0.40	0.50	0.59
102K	1000	1	1.84	3.200	2.100	1.700	0.30	0.36	0.45	0.53
122K	1200	1	2.10				0.27			
152K	1500	1	2.80				0.23			
182K	1800	1	3.21				0.21			
222K	2200	1	4.21				0.19			
272K	2700	1	4.94				0.17			
332K	3300	1	6.16				0.15			
392K	3900	1	6.84				0.14			
472K	4700	1	7.89				0.13			
562K	5600	1	11.50				0.12			
682K	6800	1	13.20				0.11			
822K	8200	1	15.20				0.10			
103K	10000	1	22.00				0.089			
123K	12000	1	25.00				0.073			
153K	15000	1	29.10				0.068			
183K	18000	1	38.90				0.066			
223K	22000	1	44.90				0.059			
273K	27000	1	55.70				0.052			
333K	33000	1	64.20				0.048			
393K	39000	1	74.20				0.042			
473K	47000	1	96.40				0.038			

1. Rated DC Current: The current when the inductance decrease to 90% of its initial value. (Ta=25°C)

2. Operating temperature range -40 ~ 105°C.