

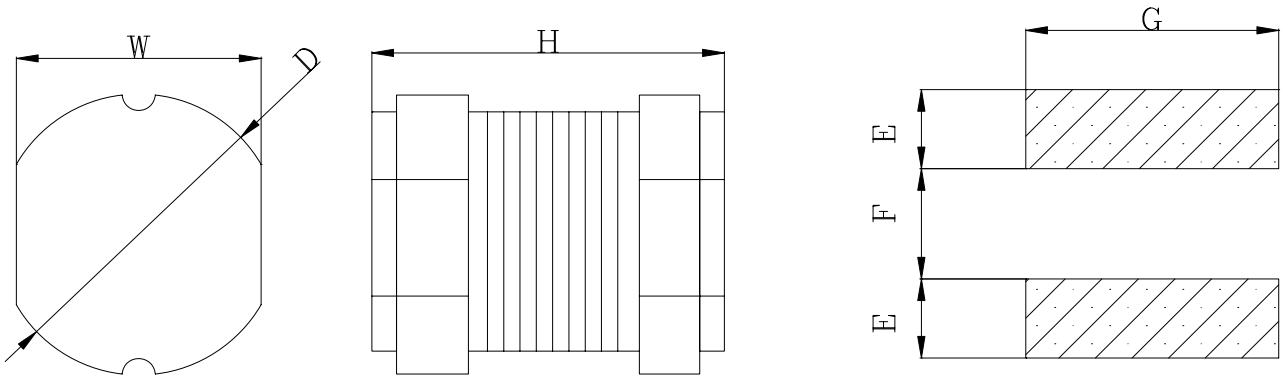


# DB Series POWER INDUCTORS

- Various high power surface mountable type inductors are superior to high saturation
- Portable communication equipment, Notebook Computer
- Lead free and RoHS compliant



## Mechanicals



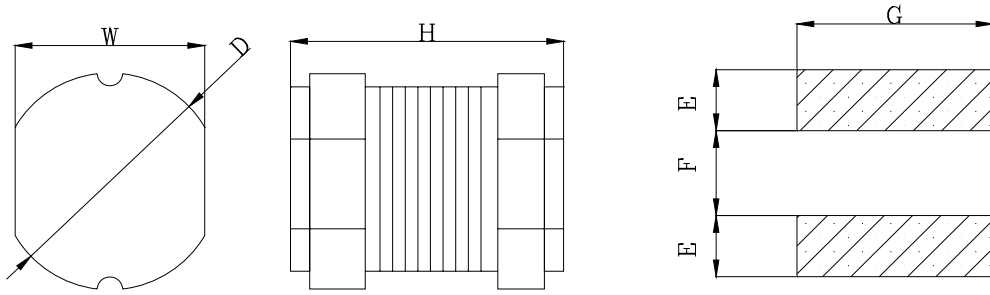
	<b>D</b>	<b>H</b>	<b>W</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>1</b>	<b>3.5</b>	<b>2.1</b>	<b>3.0</b>	<b>1.3</b>	<b>0.9</b>	<b>3.0</b>
<b>2</b>	<b>4.5</b>	<b>3.2</b>	<b>4.0</b>	<b>2.1</b>	<b>1.0</b>	<b>4.0</b>
<b>3</b>	<b>5.8</b>	<b>4.5</b>	<b>5.2</b>	<b>2.5</b>	<b>1.1</b>	<b>5.8</b>
<b>4</b>	<b>7.8</b>	<b>3.5</b>	<b>7.0</b>	<b>3.3</b>	<b>1.4</b>	<b>8.0</b>
<b>5</b>	<b>7.8</b>	<b>5.0</b>	<b>7.0</b>	<b>3.3</b>	<b>1.4</b>	<b>8.0</b>
<b>6</b>	<b>10</b>	<b>4.0</b>	<b>9.0</b>	<b>4.4</b>	<b>1.8</b>	<b>10</b>
<b>7</b>	<b>10</b>	<b>5.4</b>	<b>9.0</b>	<b>4.4</b>	<b>1.8</b>	<b>10</b>





# DB Series POWER INDUCTORS

## DB1 Series



<b>D</b>	<b>H</b>	<b>W</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>3.5</b>	<b>2.1</b>	<b>3.0</b>	<b>1.3</b>	<b>0.9</b>	<b>3.0</b>

### Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	Tolerance Suffix
DB1100M	10	0.23	0.760	M
DB1120M	12	0.27	0.685	M
DB1150M	15	0.31	0.635	M
DB1180M	18	0.41	0.525	M
DB1220M	22	0.47	0.500	M
DB1270M	27	0.66	0.405	M
DB1330K	33	0.76	0.380	K
DB1390K	39	0.85	0.355	K
DB1470K	47	0.97	0.330	K
DB1560K	56	1.25	0.290	K
DB1680K	68	1.45	0.275	K
DB1101K	100	2.20	0.220	K
DB1121K	120	2.90	0.185	K
DB1151K	150	3.40	0.170	K
DB1181K	180	3.90	0.165	K
DB1221K	220	4.50	0.155	K
DB1271K	270	6.00	0.135	K
DB1331K	330	7.00	0.125	K
DB1391K	390	7.80	0.115	K

### NOTE:

- ISAT current applied to produce a typical 10% drop in nominal inductance
- Suffix of M = ±20% ,K= ±10%





# DB Series POWER INDUCTORS

## DB2 Series

<b>D</b>	<b>H</b>	<b>W</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>4.5</b>	<b>3.2</b>	<b>4.0</b>	<b>2.1</b>	<b>1.0</b>	<b>4.0</b>

### Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	Tolerance Suffix
DB21R0M	1.0	0.045	3.5	M
DB21R5M	1.5	0.055	2.85	M
DB21R8M	1.8	0.060	2.80	M
DB22R2M	2.2	0.070	2.40	M
DB22R7M	2.7	0.075	2.30	M
DB23R3M	3.3	0.085	2.25	M
DB23R9M	3.9	0.090	1.70	M
DB24R7M	4.7	0.105	1.65	M
DB25R6M	5.6	0.120	1.60	M
DB26R8M	6.8	0.130	1.40	M
DB28R2M	8.2	0.145	1.30	M
DB2100M	10	0.180	1.10	M
DB2120M	12	0.210	1.00	M
DB2150M	15	0.235	0.85	M
DB2180M	18	0.330	0.80	M
DB2220M	22	0.360	0.70	M
DB2270M	27	0.520	0.65	M
DB2330K	33	0.540	0.60	K
DB2390K	39	0.580	0.55	K
DB2470K	47	0.840	0.48	K
DB2560K	56	0.930	0.46	K
DB2680K	68	1.110	0.44	K
DB2820K	82	1.250	0.42	K
DB2101K	100	1.400	0.40	K
DB2221K	220	2.460	0.27	K
DB2331K	330	4.000	0.25	K
DB2471K	470	5.500	0.16	K
DB2561K	560	7.000	0.15	K

### NOTE:

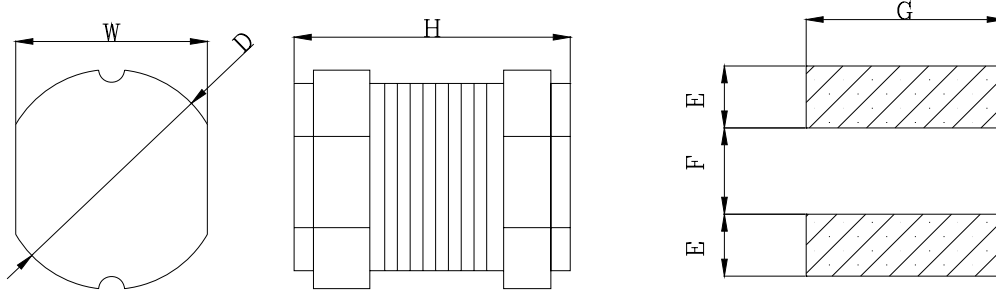
- ISAT current applied to produce a typical 10% drop in nominal inductance
- Suffix of M = ±20%,K= ±10%





# DB Series POWER INDUCTORS

## DB3 Series



<b>D</b>	<b>H</b>	<b>W</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>5.8</b>	<b>4.5</b>	<b>5.2</b>	<b>2.5</b>	<b>1.1</b>	<b>5.8</b>

### Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	Tolerance Suffix
DB34R7M	4.7	0.038	2.50	M
DB36R8M	6.8	0.055	2.00	M
DB3100M	10	0.10	1.65	M
DB3120M	12	0.12	1.55	M
DB3150M	15	0.14	1.40	M
DB3180M	18	0.15	1.25	M
DB3220M	22	0.18	1.10	M
DB3270M	27	0.20	0.95	M
DB3330L	33	0.22	0.90	L
DB3390L	39	0.30	0.80	L
DB3470L	47	0.35	0.75	L
DB3560K	56	0.40	0.70	K
DB3680K	68	0.45	0.65	K
DB3820K	82	0.60	0.60	K
DB3101K	100	0.70	0.55	K
DB3121K	120	0.85	0.45	K
DB3151K	150	1.10	0.43	K
DB3181K	180	1.35	0.40	K
DB3221K	220	1.55	0.35	K
DB3331K	330	2.00	0.30	K
DB3471K	470	2.50	<b>0.25</b>	K
DB3561K	560	2.87	<b>0.20</b>	K

### NOTE:

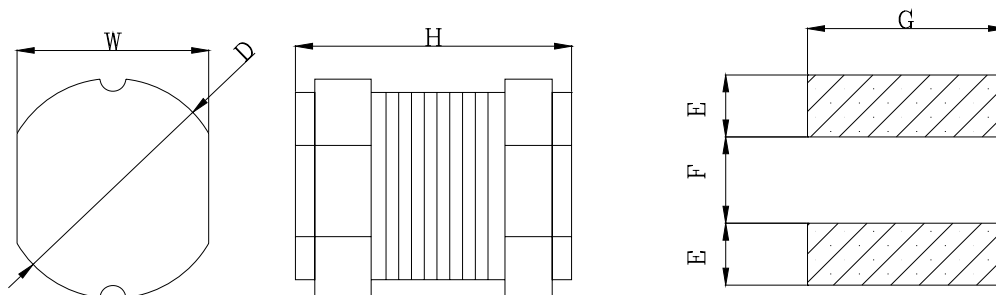
- ISAT current applied to produce a typical 10% drop in nominal inductance
- Suffix of M = ±20%, L = ±15%, K = ±10%





# DB Series POWER INDUCTORS

## DB4 Series



<b>D</b>	<b>H</b>	<b>W</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>7.8</b>	<b>3.5</b>	<b>7.0</b>	<b>3.3</b>	<b>1.4</b>	<b>8.0</b>

### Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	Tolerance Suffix
DB4100M	10	0.080	2.10	M
DB4120M	12	0.090	1.80	M
DB4150M	15	0.095	1.70	M
DB4180M	18	0.110	1.40	M
DB4220M	22	0.130	1.35	M
DB4270M	27	0.145	1.25	M
DB4330L	33	0.170	1.05	L
DB4390L	39	0.215	0.95	L
DB4470L	47	0.250	0.90	L
DB4560K	56	0.280	0.80	K
DB4680K	68	0.330	0.75	K
DB4820K	82	0.405	0.70	K
DB4101K	100	0.480	0.65	K
DB4121K	120	0.535	0.60	K
DB4151K	150	0.750	0.55	K
DB4181K	180	1.020	0.50	K
DB4221K	220	1.200	0.45	K
DB4271K	270	1.305	0.37	K
DB4331K	330	1.495	0.35	K
DB4471K	470	2.200	0.30	K

### NOTE:

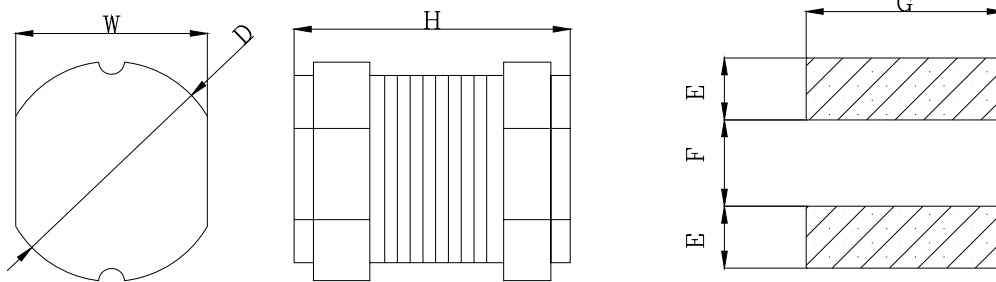
- ISAT current applied to produce a typical 10% drop in nominal inductance
- Suffix of M = ±20% , L = ±15%, K = ±10%





# DB Series POWER INDUCTORS

## DB5 Series



<b>D</b>	<b>H</b>	<b>W</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>7.8</b>	<b>5.0</b>	<b>7.0</b>	<b>3.3</b>	<b>1.4</b>	<b>8.0</b>

### Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	Tolerance Suffix
DB5100M	10	0.07	2.55	M
DB5120M	12	0.08	2.40	M
DB5150M	15	0.09	2.00	M
DB5180M	18	0.10	1.95	M
DB5220M	22	0.11	1.70	M
DB5270M	27	0.12	1.55	M
DB5330L	33	0.13	1.40	L
DB5390L	39	0.15	1.35	L
DB5470L	47	0.17	1.25	L
DB5560K	56	0.23	1.10	K
DB5680K	68	0.25	1.00	K
DB5820K	82	0.35	0.95	K
DB5101K	100	0.40	0.78	K
DB5121K	120	0.45	0.73	K
DB5151K	150	0.60	0.70	K
DB5181K	180	0.70	0.60	K
DB5221K	220	0.95	0.55	K
DB5271K	270	1.10	0.50	K
DB5331K	330	1.25	0.45	K
DB5391K	390	1.75	0.40	K
DB5471K	470	1.95	0.35	K

### NOTE:

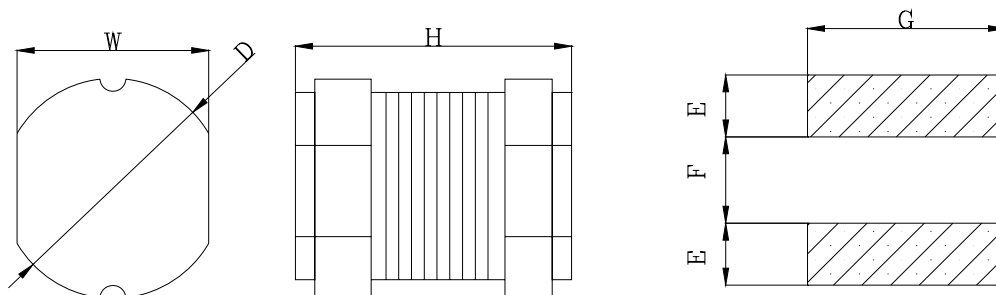
- ISAT current applied to produce a typical 10% drop in nominal inductance
- Suffix of M = ±20% , L = ±15%, K = ±10%





# DB Series POWER INDUCTORS

## DB6 Series



<b>D</b>	<b>H</b>	<b>W</b>	<b>E</b>	<b>F</b>	<b>G</b>
<b>10</b>	<b>4.0</b>	<b>9.0</b>	<b>4.4</b>	<b>1.8</b>	<b>10</b>

### Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	Tolerance Suffix
DB6100M	10	0.05	2.90	M
DB6120M	12	0.06	0.80	M
DB6150M	15	0.07	0.30	M
DB6180M	18	0.08	2.15	M
DB6220M	22	0.09	2.10	M
DB6270M	27	0.10	1.90	M
DB6330L	33	0.12	1.85	L
DB6390L	39	0.15	1.45	L
DB6470L	47	0.17	1.35	L
DB6560K	56	0.20	1.30	K
DB6680K	68	0.22	1.20	K
DB6820K	82	0.25	1.00	K
DB6101K	100	0.30	0.95	K
DB6121K	120	0.40	0.90	K
DB6151K	150	0.50	0.80	K
DB6181K	180	0.62	0.70	K
DB6221K	220	0.72	0.65	K
DB6271K	270	0.95	0.57	K
DB6331K	330	1.10	0.55	K
DB6391K	390	1.20	0.50	K
DB6471K	470	1.52	0.45	K
DB6561K	560	1.90	0.40	K

### NOTE:

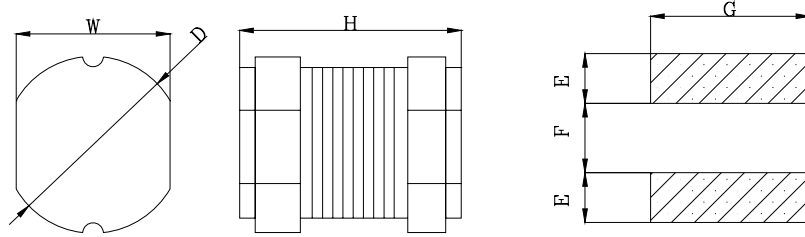
- ISAT current applied to produce a typical 10% drop in nominal inductance
- Suffix of M = ±20% , L = ±15%, K = ±10%





# DB Series POWER INDUCTORS

## DB7 Series



D	H	W	E	F	G
10	5.4	9.0	4.4	1.8	10

### Electrical Specifications @ 25°C

Part Number	L μH	DCR Ω	ISAT A	Tolerance Suffix
DB7100M	10	0.06	3.80	M
DB7120M	12	0.07	3.4	M
DB7150M	15	0.08	2.9	M
DB7180M	18	0.09	2.65	M
DB7220M	22	0.10	2.50	M
DB7270M	27	0.11	2.25	M
DB7330L	33	0.12	2.00	L
DB7390L	39	0.13	1.90	L
DB7470L	47	0.15	1.70	L
DB7560K	56	0.19	1.60	K
DB7680K	68	0.22	1.45	K
DB7820K	82	0.25	1.30	K
DB7101K	100	0.33	1.15	K
DB7121K	120	0.40	1.00	K
DB7151K	150	0.45	0.95	K
DB7181K	180	0.60	0.85	K
DB7221K	220	0.70	0.75	K
DB7271K	270	0.95	0.70	K
DB7331K	330	1.10	0.60	K
DB7391K	390	1.20	0.55	K
DB7471K	470	1.45	0.50	K
DB7561K	560	1.90	0.48	K
DB7681K	680	2.25	0.45	K
DB7821K	820	2.50	0.40	K

### NOTE:

- Suffix of M = ±20% , L = ±15%, K = ±10%

