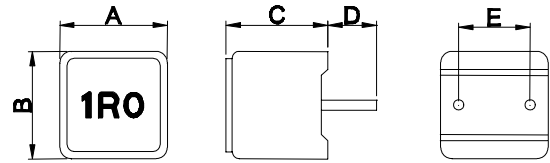


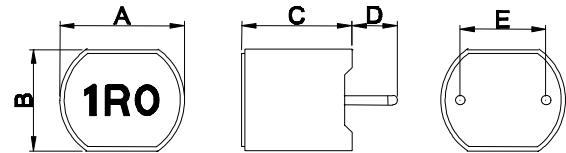
DIP Power Inductor – DM Series



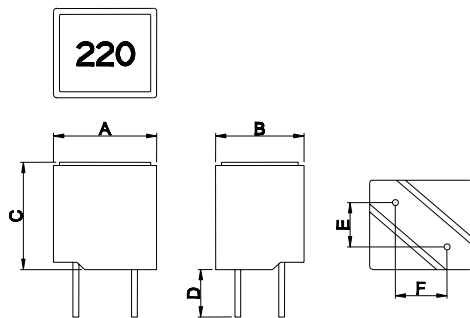
DM0708



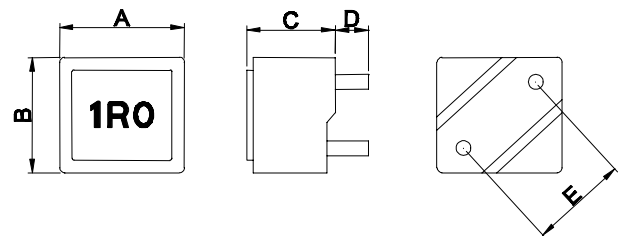
DM0808 / 1210



DM1818



DM1310



Dimensions

Unit: mm

Type	A	B	C Max.	D	E	F
DM0708	7.5±0.5	7.5±0.5	8.5	3.4±0.5	5.0±0.4	-
DM0808	8.7±0.5	7.2±0.5	8.5	3.4±0.5	6.0±0.5	-
DM1210	12.3±0.5	10.2±0.5	10.0	3.4±0.5	8.0±0.5	-
DM1310	13.0±0.5	12.0±0.5	10.0	3.4±0.5	10.0±0.5	-
DM1818	18.0 max	15.5 max	18.0	8.0±0.5	7.0±0.5	5.0±0.1

Features

- Ultra low cost
- Shielded construction
- High current rating up DC 40A
- High frequency range up to 500KHz
- Very low DC resistance
- Low noise

Characteristics

- Saturation Rated Current (IDC/Isat) : The DC current when the inductance becomes 20% Typical its initial value. (Ta=25°C)
- Temperature Rise Current (Irms) : The actual current when temperature of coil becomes Δ40°C (Ta=25°C)
- Operating Temperature Range : -25°C ~ 125°C

Applications

- Motherboards For Laptop And Desktop Computers
- DC/DC Converter

Inductance and rated current ranges

- DM0708 0.56~4.7μH 32A~12A
- DM0808 0.56~4.7μH 32A~12A
- DM1210 0.22~4.7μH 56A~15A
- DM1310 0.33~2.2μH 55A~25A
- DM1818 10~33μH 11A~6A
- Electrical specifications at 25°C

Product Identification

DM	1210	M	B	R50
Product Type	Dimensions (AxBxC)	Inductor Tolerance	Packaging Style	Inductance
	0708: 7.5x7.5x8.5 0808: 8.7x7.2x8.5 1210: 12.3x10.2x10 1310: 13.0x12.0x10 1818: 18.0x15.5x18	M: $\pm 20\%$	B: Bulk	R25: 0.25 μ H R50: 0.5 μ H 1R0: 1.0 μ H 100: 10 μ H

Electrical Characteristics

DM0708 Type

Codes	L (μ H)	Tolerance	Test Condition	DCR (m Ω) Max	IDC (A) Max
R56	0.56	M	100KHz, 0.1V	2.50	32
1R0	1.0	M	100KHz, 0.1V	5.60	21
1R5	1.5	M	100KHz, 0.1V	7.50	18
2R2	2.2	M	100KHz, 0.1V	10.0	16
2R8	2.8	M	100KHz, 0.1V	11.8	15
3R3	3.3	M	100KHz, 0.1V	13.6	14
4R7	4.7	M	100KHz, 0.1V	17.0	12

DM0808 Type

Codes	L (μ H)	Tolerance	Test Condition	DCR (m Ω) Max	IDC (A) Max
R56	0.56	M	100KHz, 0.1V	2.50	32
1R0	1.0	M	100KHz, 0.1V	5.60	21
1R5	1.5	M	100KHz, 0.1V	7.50	18
2R2	2.2	M	100KHz, 0.1V	10.0	16
2R8	2.8	M	100KHz, 0.1V	11.8	15
3R3	3.3	M	100KHz, 0.1V	13.6	14
4R7	4.7	M	100KHz, 0.1V	17.0	12

Electrical Characteristics

DM1210 Type

Codes	L (μ H)	Tolerance	Test Condition	DCR (m Ω) Max	IDC (A) Max
R22	0.22	M	100KHz, 0.1V	0.60	56
R33	0.33	M	100KHz, 0.1V	0.80	48
R36	0.36	M	100KHz, 0.1V	0.80	45
R39	0.39	M	100KHz, 0.1V	0.80	45
R47	0.47	M	100KHz, 0.1V	1.00	40
R56	0.56	M	100KHz, 0.1V	1.00	40
R60	0.60	M	100KHz, 0.1V	1.00	40
R68	0.68	M	100KHz, 0.1V	1.00	40
R80	0.80	M	100KHz, 0.1V	1.25	36
1R0	1.0	M	100KHz, 0.1V	2.00	32
1R5	1.5	M	100KHz, 0.1V	3.50	30
2R2	2.2	M	100KHz, 0.1V	5.00	24
2R8	2.8	M	100KHz, 0.1V	6.40	20
3R3	3.3	M	100KHz, 0.1V	7.70	16
4R7	4.7	M	100KHz, 0.1V	10.0	15

DM1310 Type

Codes	L (μ H)	Tolerance	Test Condition	DCR (m Ω) Max	IDC (A) Max
R33	0.33	M	100KHz, 0.1V	0.65	55
R39	0.39	M	100KHz, 0.1V	0.65	55
R47	0.47	M	100KHz, 0.1V	0.80	54
R56	0.56	M	100KHz, 0.1V	0.80	52
R60	0.60	M	100KHz, 0.1V	0.80	52
R68	0.68	M	100KHz, 0.1V	0.80	50
R80	0.80	M	100KHz, 0.1V	0.85	48
1R0	1.00	M	100KHz, 0.1V	1.35	40
1R5	1.50	M	100KHz, 0.1V	1.70	38
2R2	2.20	M	100KHz, 0.1V	3.30	25

DM1818 Type

Codes	L (μ H)	Tolerance	Test Condition	DCR (m Ω) Max		Isat (A) Max	Irms (A) Max
				Typical	Max		
100	10	M	10KHz, 0.1V	10.0	13.0	11.0	11.0
150	15	M	10KHz, 0.1V	13.0	17.0	10.0	10.0
220	22	M	10KHz, 0.1V	16.0	20.0	8.0	8.0
330	33	M	10KHz, 0.1V	23.0	25.0	6.0	6.0