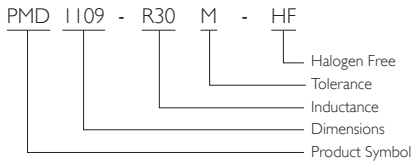


DIP Power Inductors

PMD Series



PRODUCT IDENTIFICATION



■ Tolerance: J = ±5%, K = ±10%, L = ±15%, M = ±20%,
P = ±25%, N = ±30%, Y = min

FEATURES

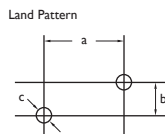
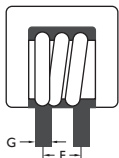
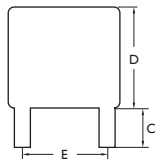
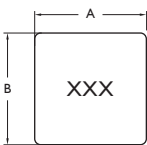
- Halogen Free products
- Shielded construction
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation

APPLICATIONS

Excellent for power lines used on DC-DC conversion applications i.e. power switching, personal computers and handheld devices.

SHAPES AND DIMENSIONS

Unit: mm



TYPE	A	B	C	D	E	F	G	a	b	c
PMD0808	8.50 ⁺⁰	8.50 ⁺⁰	3.4 ± 0.5	9.7 ⁺⁰	6.5 ± 0.5	2.7 ± 0.5	1.2 ± 0.1	6.5	3.2	1.6
PMD1109	12.5 ⁺⁰	12.5 ⁺⁰	3.4 ± 0.5	10 ⁺⁰	8.5 ± 0.5	3.5 ± 0.5	1.1 ± 0.1	9.0	4.0	1.5
PMD9595	10.0 ⁺⁰	10.0 ⁺⁰	3.4 ± 0.5	10 ⁺⁰	6.0 ± 1.0	4.5 ± 1.0	1.2 ± 0.1	8.5	4.5	1.6

ELECTRICAL CHARACTERISTICS FERRITE CORES

PART NO.	INDUCTANCE (μ H)	TOLERANCE (\pm %)	TEST FREQUENCY (KHz)	DC RESISTANCE (m Ω) \pm 10%	Isat (A) Max.	Irms (A) Max.
PMDI109-R30M	0.30	20	100	0.68	50.00	36.00
PMDI109-R43M	0.43	20	100	0.70	40.00	35.00
PMDI109-R50M	0.50	20	100	0.67	40.00	35.00
PMDI109-R56M	0.56	20	100	0.69	30.00	27.00

ELECTRICAL CHARACTERISTICS IRON CORES

PART NO.	INDUCTANCE (μ H)	TOLERANCE (\pm %)	TEST FREQUENCY (KHz)	DC RESISTANCE (m Ω) \pm 10%	Isat (A) Max.	Irms (A) Max.
PMD0808-R47M	0.47	20	200	1.50	25.00	20.00
PMD0808-R56M	0.56	20	200	1.50	25.00	20.00
PMDI109-R47M	0.47	20	200	1.10	40.00	35.00
PMDI109-R56M	0.56	20	200	1.10	35.00	30.00
PMDI109-R68M	0.68	20	200	1.70	30.00	25.00
PMDI109-1R2M	1.20	20	200	4.00	21.00	18.00
PMD9595-R40M	0.40	20	200	0.95	40.00	35.00
PMD9595-R47M	0.47	20	200	1.50	27.00	25.00

Note:

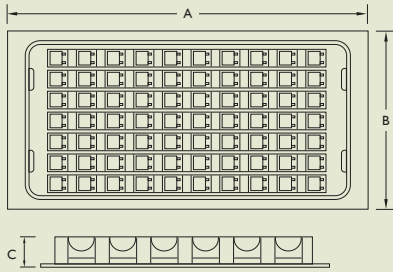
Isat: DC current at which the inductance drops 20% from its value without current

Irms: The actual current when temperature of coil becomes $\Delta T = 40$ °C



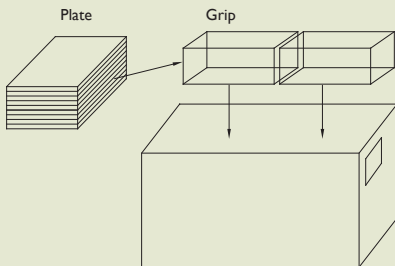
PLATE DIMENSIONS

Unit: mm



TYPE	A	B	C
PMD0808	251	143	12.00
PMD1109	251	138	13.00
PMD9595	251	138	13.00

PACKAGING QUANTITY



TYPE	BULK	QTY/PLATE	PLATE/GRIP	GRIP	BOX
PMD0808	v	80	10	2	1600
PMD1109	v	60	8	2	960
PMD9595	v	60	8	2	960