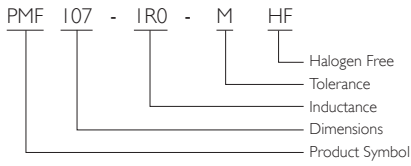


DIP Power Inductors

PMF Series



PRODUCT IDENTIFICATION



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

FEATURES

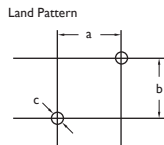
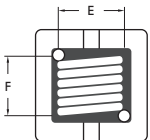
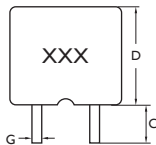
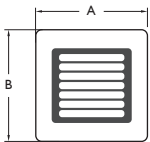
- Halogen Free products
- Shielded construction
- Lowest DCR/μH, in this package size
- Handles high transient current spikes without saturation

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
PMF0806	8.2 ⁺⁰	8.2 ⁺⁰	3.5 ± 0.5	6.0 ⁺⁰	4.4 ± 0.5	4.4 ± 0.5	0.7 ± 0.1	4.9	4.4	1.0
PMF1008	11.7 ⁺⁰	9.7 ⁺⁰	3.5 ± 0.5	8.5 ⁺⁰	6.6 ± 0.5	4.2 ± 0.5	1.4 ± 0.1	7.1	4.2	1.8
PMF107	11.5 ⁺⁰	11.5 ⁺⁰	3.4 ± 0.5	8.0 ⁺⁰	6.5 ± 0.5	6.0 ± 0.5	1.1 ± 0.1	8.5	6.0	1.5
PMF109	11.5 ⁺⁰	11.5 ⁺⁰	3.4 ± 0.5	10.5 ⁺⁰	6.8 ± 0.5	6.8 ± 0.5	1.1 ± 0.1	9.6	6.8	1.5
PMF118	12.0 ⁺⁰	12.0 ⁺⁰	3.4 ± 0.5	9.0 ⁺⁰	6.3 ± 0.5	5.7 ± 0.5	1.5 ± 0.1	7.8	7.0	1.9
PMF129	14.0 ⁺⁰	13.0 ⁺⁰	3.4 ± 0.5	9.5 ⁺⁰	7.8 ± 0.5	7.0 ± 0.5	1.0 ± 0.1	7.8	7.0	1.4

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.
PMFI07-1R0M	1.00	20	100	4.39	22.00	20.00
PMFI07-1R2M	1.20	20	100	1.66	15.00	14.00
PMFI07-330M	33.00	20	100	87.65	1.50	3.00
PMFI09-220M	22.00	20	200	58.83	4.50	3.80
PMFI09-330M	33.00	20	200	60.04	4.00	3.60
PMFI09-500M	50.00	20	200	91.23	2.00	1.80
PMFI09-101M	100.00	20	200	139.30	2.00	1.80
PMFI09-121M	120.00	20	200	200.83	2.00	1.80
PMFI09-151M	150.00	20	100	208.71	2.00	1.80
PMFI09-221M	220.00	20	200	305.00	1.50	1.35
PMFI18-R30M	0,30	20	100	0.76	30.00	50.00
PMFI29-1R0M	1.00	20	100	0.99	35.00	27.00
PMFI29-1R2M	1.20	20	100	1.35	35.00	31.50
PMFI29-3R3M	3.30	20	100	4.04	22.00	21.00
PMFI29-101M	100.00	20	100	124.00	3.00	2.70

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



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.
PMF0806-R47M	0.47	20	100	1.90	38.00	22.00
PMF0806-R60M	0.60	20	100	1.90	34.00	21.00
PMF0806-R80M	0.80	20	100	2.90	27.00	17.00
PMF0806-1R0M	1.00	20	100	4.30	22.00	14.00
PMFI008-R25M	0.25	20	100	0.65	50.00	43.00
PMFI008-R30M	0.30	20	100	0.65	45.00	43.00
PMFI 18-R47M	0.47	20	100	0.80	50.00	38.00
PMFI 18-R60M	0.60	20	100	0.80	50.00	38.00
PMFI 18-R80M	0.80	20	100	1.30	45.00	31.00
PMFI 18-1R0M	1.00	20	100	1.30	35.00	31.00
PMFI 18-1R5M	1.50	20	100	1.80	25.00	26.00
PMFI 18-2R0M	2.00	20	100	3.30	30.00	20.00
PMFI 18-3R3M	3.30	20	100	6.30	25.00	14.00

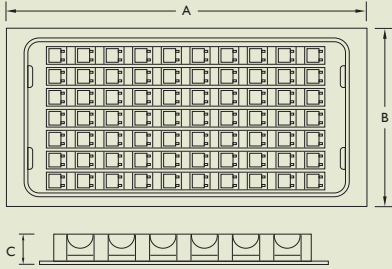
Note:

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

Irms: The actual current when temperature of coil becomes $\Delta T = 40\text{ }^{\circ}\text{C}$

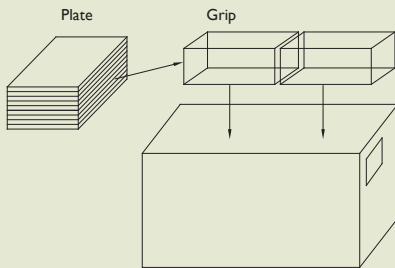
PLATE DIMENSIONS

Unit: mm



TYPE	A	B	C
PMF107	251	138	13.00
PMF109	251	138	13.00
PMF118	251	138	13.00
PMF129	250	138	17.00

PACKAGING QUANTITY



TYPE	BULK	QTY/PLATE	PLATE/GRIP	GRIP	BOX
PMF107	v	60	8	2	960
PMF109	v	60	5	2	600
PMF118	v	60	8	2	960
PMF129	v	60	8	2	960