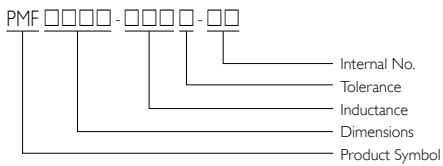


# DIP Power Inductors

# PMF Series



## PRODUCT IDENTIFICATION



- Tolerance: J = ±5%, K = ±10%, L = ±15%, M = ±20%,  
P = ±25%, N = ±30%, Y = min
- Internal No.: HF = Halogen Free

## APPLICATIONS

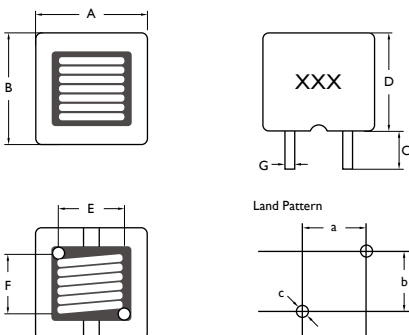
Excellent for power lines used on DC-DC conversion applications i.e. power switching, personal computers and handheld devices.

## FEATURES

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

## SHAPES AND DIMENSIONS

Unit: mm



TYPE	A	B	C	D	E	F	G	a	b	c
PMF0806	8.2 <sup>+0</sup>	8.2 <sup>+0</sup>	3.5 ± 0.5	6.0 <sup>+0</sup>	4.4 ± 0.5	4.4 ± 0.5	0.7 ± 0.1	4.9	4.4	1.0
PMF1008	11.7 <sup>+0</sup>	9.7 <sup>+0</sup>	3.5 ± 0.5	8.5 <sup>+0</sup>	6.6 ± 0.5	4.2 ± 0.5	1.4 ± 0.1	7.1	4.2	1.8
PMF107	11.5 <sup>+0</sup>	11.5 <sup>+0</sup>	3.4 ± 0.5	8.0 <sup>+0</sup>	6.5 ± 0.5	6.0 ± 0.5	1.1 ± 0.1	8.5	6.0	1.5
PMF109	11.5 <sup>+0</sup>	11.5 <sup>+0</sup>	3.4 ± 0.5	10.5 <sup>+0</sup>	6.8 ± 0.5	6.8 ± 0.5	1.1 ± 0.1	9.6	6.8	1.5
PMF118	12.0 <sup>+0</sup>	12.0 <sup>+0</sup>	3.4 ± 0.5	9.0 <sup>+0</sup>	6.3 ± 0.5	5.7 ± 0.5	1.5 ± 0.1	7.8	7.0	1.9
PMF129	14.0 <sup>+0</sup>	13.0 <sup>+0</sup>	3.4 ± 0.5	9.5 <sup>+0</sup>	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 ( $\mu$ H)	TOLERANCE ( $\pm$ %)	TEST FREQUENCY (KHz)	DC RESISTANCE (m $\Omega$ ) $\pm$ 10%	Isat (A) Max.	Irms (A) Max.
PMFI07-1R0M-HF	1.00	20	100	4.390	22.0	20.0
PMFI07-1R2M-HF	1.20	20	100	1.660	15.0	14.0
PMFI07-330M-HF	33.0	20	100	87.65	1.50	3.00
PMFI09-220M-HF	22.0	20	200	58.83	4.50	3.80
PMFI09-330M-HF	33.0	20	200	60.04	4.00	3.60
PMFI09-500M-HF	50.0	20	200	91.23	2.00	1.80
PMFI09-101M-HF	100	20	200	139.3	2.00	1.80
PMFI09-121M-HF	120	20	200	200.83	2.00	1.80
PMFI09-151M-HF	150	20	100	208.71	2.00	1.80
PMFI09-221M-HF	220	20	200	305.0	1.50	1.35
PMFI18-R30M-HF	0.30	20	100	0.760	30.0	50.0
PMFI29-1R0M-HF	1.00	20	100	0.990	35.0	27.0
PMFI29-1R2M-HF	1.20	20	100	1.350	35.0	31.5
PMFI29-3R3M-HF	3.30	20	100	4.040	22.0	21.0
PMFI29-101M-HF	100	20	100	124.0	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  $\Delta T = 40\text{ }^{\circ}\text{C}$



## ELECTRICAL CHARACTERISTICS IRON CORES

PART NO.	INDUCTANCE ( $\mu$ H)	TOLERANCE ( $\pm$ %)	TEST FREQUENCY (KHz)	DC RESISTANCE (m $\Omega$ ) $\pm$ 10%	Isat (A) Max.	Irms (A) Max.
PMF0806-R47M-HF	0.47	20	100	1.90	38.00	22.00
PMF0806-R60M-HF	0.60	20	100	1.90	34.00	21.00
PMF0806-R80M-HF	0.80	20	100	2.90	27.00	17.00
PMF0806-1R0M-HF	1.00	20	100	4.30	22.00	14.00
PMFI008-R25M-HF	0.25	20	100	0.65	50.00	43.00
PMFI008-R30M-HF	0.30	20	100	0.65	45.00	43.00
PMFI 18-R47M-HF	0.47	20	100	0.80	50.00	38.00
PMFI 18-R60M-HF	0.60	20	100	0.80	50.00	38.00
PMFI 18-R80M-HF	0.80	20	100	1.30	45.00	31.00
PMFI 18-1R0M-HF	1.00	20	100	1.30	35.00	31.00
PMFI 18-1R5M-HF	1.50	20	100	1.80	25.00	26.00
PMFI 18-2R0M-HF	2.00	20	100	3.30	30.00	20.00
PMFI 18-3R3M-HF	3.30	20	100	6.30	25.00	14.00

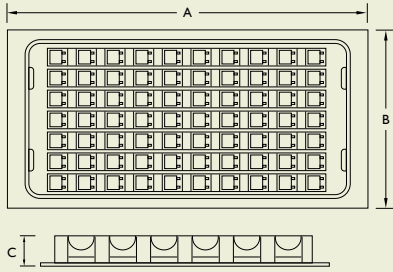
Note:

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

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

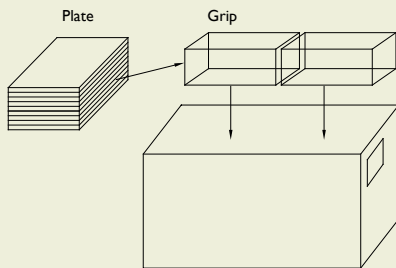
## PLATE DIMENSIONS

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