

Power Inductor \_ Small Size Molding Type

**MPIM Series**

**201610/252010 Size**



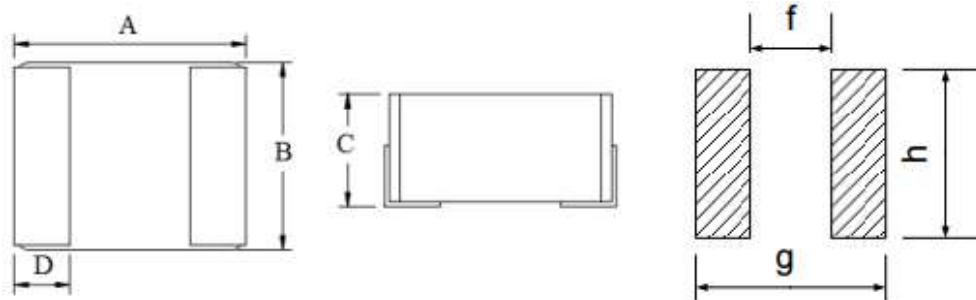
Ordering Information

**MPIM    201610    H    1R0    M - LF**

(1)                      (2)                      (3)                      (4)                      (5)                      (6)

- (1) Series Name
- (2) Product Dimension (L\*W\*H mm)
- (3) Special process code
- (4) Inductance Value (1R0:1.0uH / 100:10uH / 101:100uH)
- (5) Inductance Tolerance (K: ± 10% / M: ± 20% / N: ± 30%)
- (6) Lead Free Product

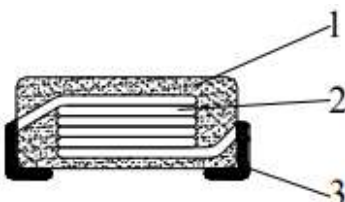
Shape & Dimensions



Dimensions (mm)

A	B	C	D	f	g	h
2.00±0.20	1.60±0.20	1.00 (Max.)	0.50±0.2	0.70 (Typ.)	2.00 (Typ.)	1.60 (Typ.)
2.50±0.20	2.00±0.20	1.00 (Max.)	0.60±0.2	1.20 (Typ.)	2.80 (Typ.)	2.00 (Typ.)

Material List



No.	Item	Material
1	Core	Alloy Material
2	Wire	Enameled Copper Wire
3	Terminal Electrode	Tin Covered Copper

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### Electrical Characteristics

#### MPIM201610H Size

Microgate Part No.	Inductance (uH)	DCR ( $\Omega$ )		Isat (A)		Irms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
MPIM201610HR22M-LF	0.24 $\pm$ 20%	0.026	0.022	5.40	6.00	3.80	4.15
MPIM201610HR33M-LF	0.33 $\pm$ 20%	0.034	0.029	4.70	5.20	3.50	3.85
MPIM201610HR47M-LF	0.47 $\pm$ 20%	0.040	0.036	4.00	4.50	3.10	3.40
MPIM201610HR68M-LF	0.68 $\pm$ 20%	0.054	0.048	3.60	4.00	2.60	2.90
MPIM201610H1R0M-LF	1.0 $\pm$ 20%	0.070	0.064	3.10	3.40	2.20	2.60
MPIM201610H1R5M-LF	1.5 $\pm$ 20%	0.110	0.100	2.40	2.70	1.80	2.05
MPIM201610H2R2M-LF	2.2 $\pm$ 20%	0.168	0.154	1.80	2.15	1.40	1.60

#### MPIM201610E Size

Microgate Part No.	Inductance (uH)	DCR ( $\Omega$ )		Isat (A)		Irms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
MPIM201610ER24M-LF	0.24 $\pm$ 20%	0.022	0.018	5.80	6.30	4.40	4.80
MPIM201610ER47M-LF	0.47 $\pm$ 20%	0.030	0.025	5.00	5.40	4.00	4.30
MPIM201610E1R0M-LF	1.0 $\pm$ 20%	0.054	0.045	4.00	4.40	3.50	3.70

#### MPIM252010H Size

Microgate Part No.	Inductance (uH)	DCR ( $\Omega$ )		Isat (A)		Irms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
MPIM252010HR22M-LF	0.22 $\pm$ 20%	0.015	0.014	6.50	6.90	5.00	5.40
MPIM252010HR33M-LF	0.33 $\pm$ 20%	0.024	0.020	5.70	6.20	4.20	4.50
MPIM252010HR47M-LF	0.47 $\pm$ 20%	0.032	0.028	5.00	5.50	3.60	3.90
MPIM252010HR68M-LF	0.68 $\pm$ 20%	0.048	0.044	4.10	4.60	3.00	3.30
MPIM252010H1R0M-LF	1.0 $\pm$ 20%	0.054	0.048	3.80	4.20	2.70	3.00
MPIM252010H1R5M-LF	1.5 $\pm$ 20%	0.082	0.075	3.00	3.40	2.10	2.40
MPIM252010H2R2M-LF	2.2 $\pm$ 20%	0.115	0.107	2.40	2.70	1.70	2.00

#### MPIM252010E Size

Microgate Part No.	Inductance (uH)	DCR ( $\Omega$ )		Isat (A)		Irms (A)	
		Max.	Typ.	Max.	Typ.	Max.	Typ.
MPIM252010ER24M-LF	0.24 $\pm$ 20%	0.015	0.013	8.50	8.90	5.70	5.90
MPIM252010ER47M-LF	0.47 $\pm$ 20%	0.027	0.022	6.00	6.60	4.40	4.80
MPIM252010E1R0M-LF	1.0 $\pm$ 20%	0.048	0.041	4.10	4.50	3.10	3.40