

**FEATURES**

High current capacity.

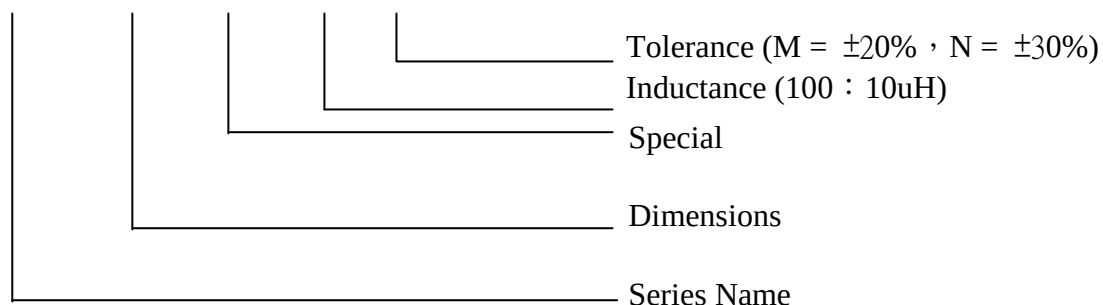
Ferrite bobbin core and compact size.

Low core loss for high frequency power application.

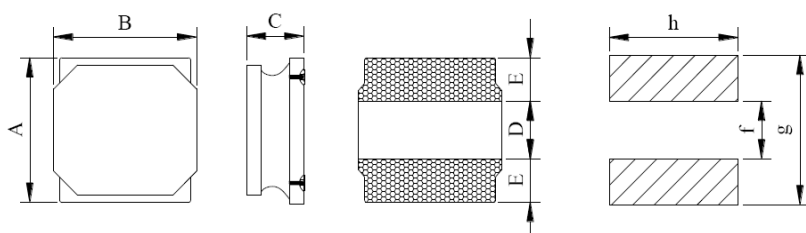
Large terminal surface for good PCB bonding.

**PART NUMBERS SYSTEM**

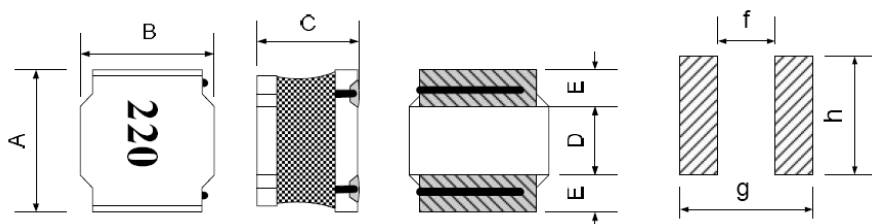
ENP **4018** **M** - **100** 

**SHAPES AND DIMENSIONS(mm)**

ENP3010M/3012M/3015M



ENP4012M/4018M/5040M/6045M/8040M





TYPE	A	B	C(Max)	D	E	f(Typ.)	g(Typ.)	h(Typ.)
ENP3010M	3.0 ± 0.2	3.0 ± 0.2	1.0	1.2 ref.	0.90±0.20	1.20	3.10	2.70
ENP3012M	3.0 ± 0.2	3.0 ± 0.2	1.2	1.5±0.2	0.75±0.20	1.50	3.10	2.70
ENP3015M	3.0 ± 0.2	3.0 ± 0.2	1.5	1.5±0.2	0.75±0.20	1.50	3.10	2.70
ENP4012M	4.0 ± 0.2	4.0 ± 0.2	1.3	2.0±0.2	1.00±0.20	1.90	4.10	3.40
ENP4018M	4.0 ± 0.2	4.0 ± 0.2	1.8	2.0±0.2	1.00±0.20	1.90	4.10	3.40
ENP5040M	5.0 ± 0.2	5.0 ± 0.2	4.0	2.4±0.2	1.30±0.20	2.30	5.10	4.20
ENP6045M	6.0 ± 0.2	6.0 ± 0.2	4.5	3.2±0.3	1.40±0.30	2.80	6.20	5.70
ENP8040M	8.0 ± 0.3	8.0 ± 0.3	4.2	3.8±0.3	2.10±0.30	3.80	8.20	7.50

Electrical Characteristics

Part Number	Inductance (μH)	L Test Frequency	DC Resistance (Ω)	Isat (A)	Irms (A)
3010M 系列					
ENP3010M-2R2□	2.2 ± 20%	100KHz	0.096	1.40	1.20
ENP3010M-4R7□	4.7 ± 20%	100KHz	0.222	0.95	0.95
ENP3010M-6R8□	6.8 ± 20%	100KHz	0.330	0.75	0.75
ENP3010M-100□	10.0 ± 20%	100KHz	0.460	0.65	0.65
ENP3010M-220□	22.0 ± 20%	100KHz	0.960	0.40	0.40
3012M 系列					
ENP3012M-1R0□	1.0 ± 30%	100KHz	0.030	3.30	2.50
ENP3012M-2R2□	2.2 ± 20%	100KHz	0.060	2.10	1.65
ENP3012M-4R7□	4.7 ± 20%	100KHz	0.120	1.50	1.25
ENP3012M-100□	10.0 ± 20%	100KHz	0.260	1.0	0.85
ENP3012M-220□	22.0 ± 20%	100KHz	0.490	0.75	0.60
3015M 系列					
ENP3015M-1R0□	1.0 ± 30%	100KHz	0.030	2.35	2.32
ENP3015M-1R5□	1.5 ± 30%	100KHz	0.050	2.30	1.70
ENP3015M-2R2□	2.2 ± 20%	100KHz	0.060	1.65	1.60
ENP3015M-3R3□	3.3 ± 20%	100KHz	0.080	1.40	1.35

NOTE : □Tolerance value : M=±20% , N=±30%



Electrical Characteristics

Part Number	Inductance (μ H)	L Test Frequency	DC Resistance (Ω)	Isat (A)	Irms (A)
ENP3015M-4R7□	$4.7 \pm 20\%$	100KHz	0.120	1.20	1.20
ENP3015M-100□	$10.0 \pm 20\%$	100KHz	0.230	0.77	0.75
ENP3015M-220□	$22.0 \pm 20\%$	100KHz	0.460	0.57	0.55

4012M 系列

ENP4012M-1R0□	$1.0 \pm 30\%$	100KHz	0.050	3.55	2.50
ENP4012M-1R5□	$1.5 \pm 30\%$	100KHz	0.060	2.90	2.25
ENP4012M-2R2□	$2.2 \pm 30\%$	100KHz	0.080	2.60	2.10
ENP4012M-4R7□	$4.7 \pm 20\%$	100KHz	0.140	1.90	1.50
ENP4012M-100□	$10.0 \pm 20\%$	100KHz	0.240	1.30	1.05
ENP4012M-220□	$22.0 \pm 20\%$	100KHz	0.570	0.85	0.75

4018M 系列

ENP4018M-1R0□	$1.0 \pm 30\%$	100KHz	0.025	4.85	3.80
ENP4018M-1R5□	$1.5 \pm 30\%$	100KHz	0.030	4.25	3.20
ENP4018M-2R2□	$2.2 \pm 30\%$	100KHz	0.040	3.40	2.90
ENP4018M-3R3□	$3.3 \pm 20\%$	100KHz	0.050	3.00	2.50
ENP4018M-4R7□	$4.7 \pm 20\%$	100KHz	0.065	2.30	2.20
ENP4018M-6R8□	$6.8 \pm 20\%$	100KHz	0.090	1.90	1.85
ENP4018M-100□	$10.0 \pm 20\%$	100KHz	0.140	1.55	1.30
ENP4018M-220□	$22.0 \pm 20\%$	100KHz	0.280	1.10	1.10

5040M 系列

ENP5040M-1R0□	$1.0 \pm 30\%$	100KHz	0.012	7.35	4.90
ENP5040M-1R5□	$1.5 \pm 30\%$	100KHz	0.015	6.30	4.30
ENP5040M-2R2□	$2.2 \pm 30\%$	100KHz	0.019	4.90	3.80
ENP5040M-3R3□	$3.3 \pm 30\%$	100KHz	0.024	3.95	3.40
ENP5040M-4R7□	$4.7 \pm 30\%$	100KHz	0.030	3.50	3.00
ENP5040M-6R8□	$6.8 \pm 20\%$	100KHz	0.043	2.90	2.50
ENP5040M-100□	$10.0 \pm 20\%$	100KHz	0.064	2.35	2.10
ENP5040M-150□	$15.0 \pm 20\%$	100KHz	0.086	2.00	2.00
ENP5040M-220□	$22.0 \pm 20\%$	100KHz	0.129	1.60	1.50
ENP5040M-330□	$33.0 \pm 20\%$	100KHz	0.188	1.30	1.20
ENP5040M-470□	$47.0 \pm 20\%$	100KHz	0.272	1.10	1.00
ENP5040M-680□	$68.0 \pm 20\%$	100KHz	0.400	0.90	0.80
ENP5040M-101□	$100.0 \pm 20\%$	100KHz	0.560	0.75	0.70

6045M 系列

ENP6045M-1R0□	$1.0 \pm 30\%$	100KHz	0.008	15.00	6.35
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NOTE : □Tolerance value : M= $\pm 20\%$, N= $\pm 30\%$



Electrical Characteristics

Part Number	Inductance (μ H)	L Test Frequency	DC Resistance (Ω)	Isat (A)	Irms (A)
ENP6045M-1R5□	1.5 $\pm$ 30%	100KHz	0.010	11.50	6.05
ENP6045M-2R2□	2.2 $\pm$ 30%	100KHz	0.014	10.50	5.00
ENP6045M-3R3□	3.3 $\pm$ 30%	100KHz	0.018	9.00	4.40
ENP6045M-4R7□	4.7 $\pm$ 20%	100KHz	0.020	7.50	4.20
ENP6045M-6R8□	6.8 $\pm$ 20%	100KHz	0.031	6.20	3.30
ENP6045M-100□	10.0 $\pm$ 20%	100KHz	0.040	4.80	3.00
ENP6045M-150□	15.0 $\pm$ 20%	100KHz	0.065	3.80	2.30
ENP6045M-220□	22.0 $\pm$ 20%	100KHz	0.089	3.50	2.00
ENP6045M-470□	47.0 $\pm$ 20%	100KHz	0.200	2.30	1.30
ENP6045M-101□	100.0 $\pm$ 20%	100KHz	0.390	1.40	1.10

8040M 系列

ENP8040M-1R0□	1.0 $\pm$ 30%	100KHz	0.006	12.0	7.80
ENP8040M-2R2□	2.2 $\pm$ 30%	100KHz	0.012	8.30	5.15
ENP8040M-4R7□	4.7 $\pm$ 30%	100KHz	0.018	6.00	4.10
ENP8040M-100□	10.0 $\pm$ 20%	100KHz	0.029	4.30	3.30
ENP8040M-220□	22.0 $\pm$ 20%	100KHz	0.066	2.80	2.20
ENP8040M-330□	33.0 $\pm$ 20%	100KHz	0.096	2.20	1.80
ENP8040M-470□	47.0 $\pm$ 20%	100KHz	0.136	1.80	1.55
ENP8040M-101□	100.0 $\pm$ 20%	100KHz	0.290	1.20	1.00

NOTE : □Tolerance value : M= $\pm$ 20% , N= $\pm$ 30%