

## SMD Power Inductors low profile

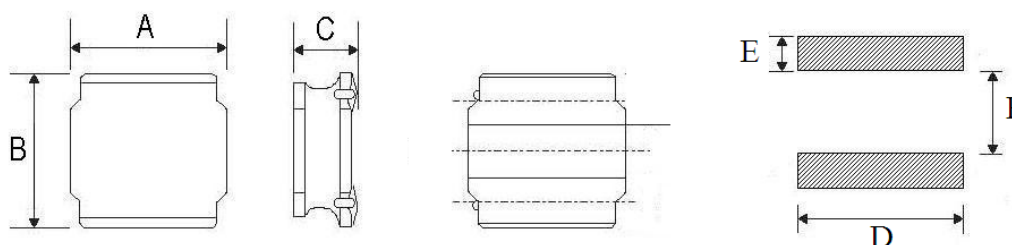
## Application Field

For small DC/DC converter (cellular phone, HDD,DVC, DSC, PDA, LCD display etc).

## Features

- Small and Low profile inductor
- It corresponds to High current
- Simple and original magnetic shield structure
- Structure strong against a shock-proof

## Dimensions and footprint (Unit : mm)



Unit : mm

Size	A	B	C	D	E	F
MNR-2512	2.5±0.2	2.0±0.2	1.25MAX	2.0(Ref)	0.85(Ref)	0.8(Ref)
MNR-3010	3.0±0.2	3.0±0.2	1.1MAX	2.7(Ref)	0.8(Ref)	2.2(Ref)
MNR-3012	3.0±0.2	3.0±0.2	1.3MAX	2.7(Ref)	0.8(Ref)	2.2(Ref)
MNR-3015	3.0±0.2	3.0±0.2	1.6MAX	2.7(Ref)	0.8(Ref)	2.2(Ref)
MNR-4010	4.0±0.2	4.0±0.2	1.1MAX	3.7(Ref)	1.2(Ref)	2.8(Ref)
MNR-4012	4.0±0.2	4.0±0.2	1.3MAX	3.7(Ref)	1.2(Ref)	2.8(Ref)
MNR-4018	4.0±0.2	4.0±0.2	1.8MAX	3.7(Ref)	1.2(Ref)	2.8(Ref)
MNR-4026	4.0±0.2	4.0±0.2	2.6MAX	3.7(Ref)	1.2(Ref)	2.8(Ref)
MNR-6012	6.0±0.2	6.0±0.2	1.3MAX	5.7(Ref)	1.6(Ref)	4.7(Ref)
MNR-6020	6.0±0.2	6.0±0.2	2.0MAX	5.7(Ref)	1.6(Ref)	4.7(Ref)
MNR-6028	6.0±0.2	6.0±0.2	2.8MAX	5.7(Ref)	1.6(Ref)	4.7(Ref)
MNR-6045	6.0±0.3	6.0±0.3	4.5 max	5.7(Ref)	1.6(Ref)	3.1(Ref)
MNR-8040	8.0±0.3	8.0±0.3	4.2 max	7.5(Ref)	1.6(Ref)	4.0(Ref)

## Part Number Code

MNR - 6045 - 680 M  
 1 2 3 4

1、Product Code

2、Dimensions Code

3、Inductance = Decimal Point

4、Tolerance : M = ±20%、N = ±30%

## Specification

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) ±30%	Isat(A) max
MNR-2512-R47	0.47	100K/1.0V	0.035	3.00
MNR-2512-R68	0.68	100K/1.0V	0.048	2.50
MNR-2512-1R0	1.0	100K/1.0V	0.065	2.43
MNR-2512-1R5	1.5	100K/1.0V	0.084	1.95
MNR-2512-2R2	2.2	100K/1.0V	0.144	1.70
MNR-2512-4R7	4.7	100K/1.0V	0.174	1.35
MNR-2512-6R8	6.8	100K/1.0V	0.252	1.12
MNR-2512-100	10.0	100K/1.0V	0.60	0.70

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) ±30%	IDC(A) max
MNR-3010-1R0	1.0	100KHz	0.065	1.300
MNR-3010-1R5	1.5	100KHz	0.080	1.200
MNR-3010-2R2	2.2	100KHz	0.095	1.100
MNR-3010-3R3	3.3	100KHz	0.140	0.870
MNR-3010-4R7	4.7	100KHz	0.190	0.750
MNR-3010-6R8	6.8	100KHz	0.300	0.610
MNR-3010-100	10	100KHz	0.450	0.510
MNR-3010-150	15	100KHz	0.740	0.400
MNR-3010-220	22	100KHz	1.030	0.350

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) ±30%	IDC(A) max
MNR-3012-1R0	1.0	100KHz	0.050	1.490
MNR-3012-1R5	1.5	100KHz	0.060	1.360
MNR-3012-2R2	2.2	100KHz	0.080	1.100
MNR-3012-3R3	3.3	100KHz	0.100	0.910
MNR-3012-4R7	4.7	100KHz	0.130	0.770
MNR-3012-6R8	6.8	100KHz	0.190	0.670
MNR-3012-100	10	100KHz	0.290	0.540
MNR-3012-150	15	100KHz	0.450	0.440
MNR-3012-220	22	100KHz	0.630	0.375

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) ±30%	IDC(A) max
MNR-3015-1R0	1.0	100KHz	0.030	2.100
MNR-3015-1R5	1.5	100KHz	0.040	1.800
MNR-3015-2R2	2.2	100KHz	0.060	1.480
MNR-3015-3R3	3.3	100KHz	0.080	1.210
MNR-3015-4R7	4.7	100KHz	0.120	1.020
MNR-3015-6R8	6.8	100KHz	0.160	0.880
MNR-3015-100	10	100KHz	0.230	0.710
MNR-3015-150	15	100KHz	0.360	0.560
MNR-3015-220	22	100KHz	0.520	0.470
MNR-3015-330	33	100KHz	0.840	0.370

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) ±30%	IDC(A) max
MNR-4010-1R0	1.0	100KHz	0.100	1.800
MNR-4010-2R2	2.2	100KHz	0.150	1.150
MNR-4010-3R3	3.3	100KHz	0.180	1.100
MNR-4010-4R7	4.7	100KHz	0.210	0.900
MNR-4010-6R8	6.8	100KHz	0.300	0.740
MNR-4010-100	10	100KHz	0.380	0.560
MNR-4010-150	15	100KHz	0.510	0.470
MNR-4010-220	22	100KHz	0.870	0.360

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) ±30%	IDC(A) max
MNR-4012-1R0	1.0	100KHz	0.060	2.500
MNR-4012-2R2	2.2	100KHz	0.090	1.650
MNR-4012-3R3	3.3	100KHz	0.130	1.200
MNR-4012-4R7	4.7	100KHz	0.140	1.050
MNR-4012-6R8	6.8	100KHz	0.180	0.900
MNR-4012-100	10	100KHz	0.240	0.740
MNR-4012-150	15	100KHz	0.400	0.560
MNR-4012-220	22	100KHz	0.480	0.510
MNR-4012-330	33	100KHz	0.810	0.400

Part No.	Inductance (μH)	Freq. (Hz)	DCR(Ω) ±30%	IDC(A) max
MNR-4018-1R0	1.0	100KHz	0.030	4.000
MNR-4018-2R2	2.2	100KHz	0.060	2.700
MNR-4018-3R3	3.3	100KHz	0.070	2.000
MNR-4018-4R7	4.7	100KHz	0.090	1.700
MNR-4018-6R8	6.8	100KHz	0.110	1.450
MNR-4018-100	10	100KHz	0.180	1.200
MNR-4018-150	15	100KHz	0.250	0.940
MNR-4018-220	22	100KHz	0.360	0.800
MNR-4018-330	33	100KHz	0.530	0.650

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-4018-470	47	100KHz	0.650	0.570
MNR-4018-680	68	100KHz	1.000	0.470
MNR-4018-101	100	100KHz	1.500	0.400

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-4026-1R0	1.0	100KHz	0.030	3.100
MNR-4026-2R3	2.3	100KHz	0.040	2.100
MNR-4026-3R5	3.5	100KHz	0.050	1.800
MNR-4026-4R7	4.7	100KHz	0.055	1.450
MNR-4026-6R6	6.6	100KHz	0.065	1.300
MNR-4026-100	10	100KHz	0.085	1.000
MNR-4026-150	15	100KHz	0.110	0.900
MNR-4026-220	22	100KHz	0.165	0.610
MNR-4026-330	33	100KHz	0.200	0.540
MNR-4026-470	47	100KHz	0.300	0.410

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-6012-2R5	2.5	100KHz	0.090	1.730
MNR-6012-4R0	4.0	100KHz	0.105	1.570
MNR-6012-5R3	5.3	100KHz	0.125	1.400
MNR-6012-6R8	6.8	100KHz	0.165	1.180
MNR-6012-100	10	100KHz	0.235	1.000
MNR-6012-150	15	100KHz	0.330	0.790
MNR-6012-220	22	100KHz	0.530	0.630
MNR-6012-330	33	100KHz	0.700	0.530

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-6020-0R8	0.8	100KHz	0.020	3.800
MNR-6020-1R5	1.5	100KHz	0.026	3.200
MNR-6020-2R2	2.2	100KHz	0.034	2.700
MNR-6020-3R3	3.3	100KHz	0.040	2.600
MNR-6020-4R7	4.7	100KHz	0.058	2.000
MNR-6020-6R8	6.8	100KHz	0.085	1.800
MNR-6020-100	10	100KHz	0.125	1.400
MNR-6020-220	22	100KHz	0.290	0.950

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-6028-0R9	0.9	100KHz	0.013	4.600
MNR-6028-1R5	1.5	100KHz	0.016	4.200
MNR-6028-2R2	2.2	100KHz	0.020	3.700
MNR-6028-3R0	3.0	100KHz	0.023	3.400
MNR-6028-4R7	4.7	100KHz	0.031	3.000
MNR-6028-6R0	6.0	100KHz	0.040	2.500

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-6028-100	10	100KHz	0.065	1.900
MNR-6028-150	15	100KHz	0.095	1.800
MNR-6028-220	22	100KHz	0.135	1.400
MNR-6028-330	33	100KHz	0.220	1.100
MNR-6028-470	47	100KHz	0.300	0.920
MNR-6028-680	68	100KHz	0.420	0.770
MNR-6028-101	100	100KHz	0.600	0.660

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-6045-1R0	1.0	100KHz	0.014	4.200
MNR-6045-1R3	1.3	100KHz	0.016	4.000
MNR-6045-1R8	1.8	100KHz	0.018	3.700
MNR-6045-2R3	2.3	100KHz	0.021	3.500
MNR-6045-3R0	3.0	100KHz	0.024	3.200
MNR-6045-4R5	4.5	100KHz	0.031	3.000
MNR-6045-6R3	6.3	100KHz	0.038	2.800
MNR-6045-100	10	100KHz	0.047	2.500
MNR-6045-150	15	100KHz	0.077	1.900
MNR-6045-220	22	100KHz	0.115	1.500
MNR-6045-330	33	100KHz	0.145	1.400
MNR-6045-470	47	100KHz	0.220	1.100
MNR-6045-680	68	100KHz	0.330	0.900
MNR-6045-101	100	100KHz	0.500	0.700

Part No.	Inductance ( $\mu$ H)	Freq. (Hz)	DCR( $\Omega$ ) $\pm$ 30%	IDC(A) max
MNR-8040-R90	0.9	100KHz	0.006	11.000
MNR-8040-1R4	1.4	100KHz	0.007	9.000
MNR-8040-2R0	2.0	100KHz	0.009	7.400
MNR-8040-3R6	3.6	100KHz	0.015	5.300
MNR-8040-4R7	4.7	100KHz	0.018	4.700
MNR-8040-6R8	6.8	100KHz	0.025	4.000
MNR-8040-100	10	100KHz	0.034	3.400
MNR-8040-150	15	100KHz	0.050	2.700
MNR-8040-220	22	100KHz	0.066	2.200
MNR-8040-330	33	100KHz	0.100	1.900
MNR-8040-470	47	100KHz	0.150	1.500
MNR-8040-680	68	100KHz	0.230	1.200
MNR-8040-101	100	100KHz	0.290	1.000