

### APW Series

#### Features

- Ideal for a variety of DC-DC converter Inductors Applications. Available on tape and reel for automatic insertion. Low DC resistance and large permissible DC current. This can be surface mount assembly and reflow soldering is also possible.

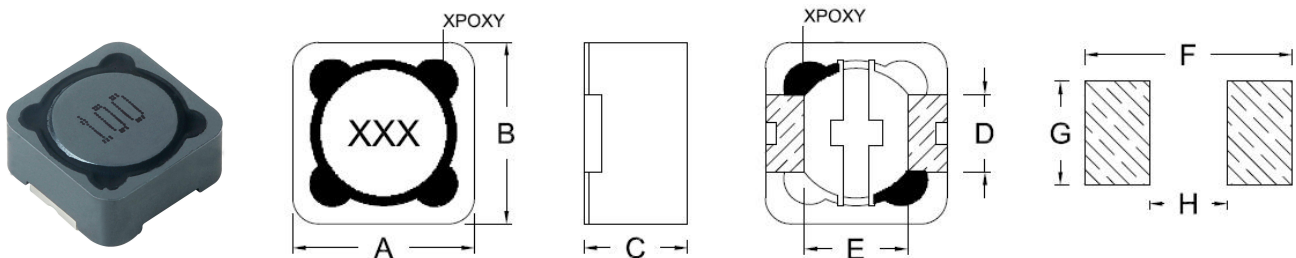
#### Applications

- Excellent for power line DC-DC conversion application used in hard disk, notebook computers and other electronic equipment.

#### Test Equipment and Conditions

- Inductance is measured with IM3536 LCR meter or equivalent.
- Maximum allowable DC current which causes 35% inductance reduction of the initial value ,or coil
- Temperature to rise by 40°C, whichever is smaller.(Reference ambient temperature 25°C) .
- Operating temperature: -40°C~+125°C.

#### External Dimensions (Unit : m/m)



TYPE	A	B	C	D Typ.	E Typ.	F Typ.	G Typ.	H Typ.	Q'TY/Reel
APW07A30	7.5Max	7.5Max	3.4Max	2.0	4.5	8.5	3.25	3.5	1000
APW07A45	7.5Max	7.5Max	4.5Max	2.0	4.5	8.5	3.25	3.5	1000
APW12A45	12.5Max	12.5Max	4.5Max	5.0	7.6	12.6	5.4	7.0	500
APW12A60	12.5Max	12.5Max	6.0Max	5.0	7.6	12.6	5.4	7.0	500
APW12A80	12.5Max	12.5Max	8.0Max	5.0	7.6	12.6	5.4	7.0	500
APW12A10	12.5Max	12.5Max	10.0Max	5.0	7.6	12.6	5.4	7.0	300

#### Part Number Code

APW   07   A   30   M   100  
 A      B      C      D      E      F

A:	Type of product	Power Inductors
B:	Dimensions(mm)	07: 7.5 x7.5 Max
C:	Materials	NO use
D:	Thickness(mm)	30: 3.4 Max
E:	Tolerance	M: ±20%
F:	Inductance	100=10uH

### APW Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
APW07A30M100	10.00	100	0.072	1.68
APW07A30M120	12.00	100	0.098	1.52
APW07A30M150	15.00	100	0.130	1.33
APW07A30M180	18.00	100	0.140	1.20
APW07A30M220	22.00	100	0.190	1.07
APW07A30M270	27.00	100	0.210	0.96
APW07A30M330	33.00	100	0.240	0.91
APW07A30M390	39.00	100	0.320	0.77
APW07A30M470	47.00	100	0.360	0.76
APW07A30M560	56.00	100	0.470	0.68
APW07A30M680	68.00	100	0.520	0.61
APW07A30M820	82.00	100	0.690	0.57
APW07A30M101	100.00	100	0.790	0.50
APW07A30M121	120.00	100	0.890	0.49
APW07A30M151	150.00	100	1.270	0.43
APW07A30M181	180.00	100	1.450	0.39
APW07A30M221	220.00	100	1.650	0.35
APW07A30M271	270.00	100	2.310	0.32
APW07A30M331	330.00	100	2.620	0.28
APW07A30M391	390.00	100	2.940	0.26
APW07A30M471	470.00	100	4.180	0.24
APW07A30M561	560.00	100	4.670	0.22
APW07A30M681	680.00	100	5.730	0.19
APW07A30M821	820.00	100	6.540	0.18
APW07A30M102	1000.00	100	9.440	0.16
APW07A45M100	10.00	100	0.049	1.84
APW07A45M120	12.00	100	0.063	1.71
APW07A45M150	15.00	100	0.081	1.47
APW07A45M180	18.00	100	0.091	1.31
APW07A45M220	22.00	100	0.110	1.23
APW07A45M270	27.00	100	0.150	1.12
APW07A45M330	33.00	100	0.170	0.96
APW07A45M390	39.00	100	0.230	0.91
APW07A45M470	47.00	100	0.260	0.88
APW07A45M560	56.00	100	0.350	0.75
APW07A45M680	68.00	100	0.380	0.69
APW07A45M820	82.00	100	0.450	0.61
APW07A45M101	100.00	100	0.610	0.60
APW07A45M121	120.00	100	0.660	0.52
APW07A45M151	150.00	100	0.880	0.46
APW07A45M181	180.00	100	0.980	0.42
APW07A45M221	220.00	100	1.170	0.36

### APW Series

Part Number	Inductance (µH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
APW07A45M271	270.00	100	1.640	0.34
APW07A45M331	330.00	100	1.860	0.32
APW07A45M391	390.00	100	2.850	0.29
APW07A45M471	470.00	100	3.010	0.26
APW07A45M561	560.00	100	3.620	0.23
APW07A45M681	680.00	100	4.630	0.22
APW07A45M821	820.00	100	5.200	0.20
APW07A45M102	1000.00	100	6.000	0.18
APW12A45M2R2	2.20	100	0.008	7.00
APW12A45M2R7	2.70	100	0.012	6.70
APW12A45M3R5	3.50	100	0.015	6.60
APW12A45M3R9	3.90	100	0.015	6.50
APW12A45M4R7	4.70	100	0.018	5.60
APW12A45M5R6	5.60	100	0.018	5.20
APW12A45M6R8	6.80	100	0.022	4.90
APW12A45M7R6	7.60	100	0.026	4.70
APW12A45M8R2	8.20	100	0.026	4.60
APW12A45M100	10.00	100	0.028	4.50
APW12A45M120	12.00	100	0.038	4.00
APW12A45M150	15.00	100	0.050	3.20
APW12A45M180	18.00	100	0.057	3.10
APW12A45M220	22.00	100	0.066	2.90
APW12A45M270	27.00	100	0.080	2.80
APW12A45M330	33.00	100	0.097	2.70
APW12A45M390	39.00	100	0.132	2.10
APW12A45M470	47.00	100	0.150	1.90
APW12A45M560	56.00	100	0.180	1.80
APW12A45M680	68.00	100	0.220	1.50
APW12A45M820	82.00	100	0.260	1.30
APW12A45M101	100.00	100	0.308	1.20
APW12A45M121	120.00	100	0.380	1.10
APW12A45M151	150.00	100	0.530	0.95
APW12A45M181	180.00	100	0.620	0.85
APW12A45M221	220.00	100	0.700	0.80
APW12A45M271	270.00	100	0.875	0.60
APW12A45M331	330.00	100	0.990	0.50
APW12A60M1R8	1.80	100	0.005	8.00
APW12A60M2R7	2.70	100	0.007	7.00
APW12A60M3R9	3.90	100	0.009	6.00
APW12A60M4R7	4.70	100	0.012	5.30
APW12A60M6R1	6.10	100	0.013	4.80
APW12A60M6R8	6.80	100	0.014	4.70

### APW Series

Part Number	Inductance (µH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
APW12A60M7R6	7.60	100	0.017	4.50
APW12A60M8R2	8.20	100	0.020	4.30
APW12A60M100	10.00	100	0.040	4.00
APW12A60M120	12.00	100	0.027	3.50
APW12A60M150	15.00	100	0.030	3.30
APW12A60M180	18.00	100	0.034	3.00
APW12A60M220	22.00	100	0.036	2.80
APW12A60M270	27.00	100	0.051	2.30
APW12A60M330	33.00	100	0.060	2.10
APW12A60M390	39.00	100	0.068	2.00
APW12A60M470	47.00	100	0.075	1.80
APW12A60M560	56.00	100	0.110	1.70
APW12A60M680	68.00	100	0.120	1.50
APW12A60M820	82.00	100	0.140	1.40
APW12A60M101	100.00	100	0.180	1.30
APW12A60M121	120.00	100	0.200	1.10
APW12A60M151	150.00	100	0.230	1.00
APW12A60M181	180.00	100	0.290	0.90
APW12A60M221	220.00	100	0.450	0.80
APW12A60M271	270.00	100	0.500	0.75
APW12A60M331	330.00	100	0.590	0.68
APW12A60M391	390.00	100	0.690	0.65
APW12A60M471	470.00	100	0.770	0.58
APW12A60M561	560.00	100	0.860	0.54
APW12A60M681	680.00	100	1.200	0.48
APW12A60M821	820.00	100	1.340	0.43
APW12A60M102	1000.00	100	1.530	0.40
APW12A80M1R2	1.20	100	0.007	9.80
APW12A80M1R8	1.80	100	0.0115	8.00
APW12A80M3R3	3.30	100	0.013	7.50
APW12A80M4R7	4.70	100	0.015	6.80
APW12A80M6R1	6.10	100	0.017	6.60
APW12A80M7R6	7.60	100	0.020	5.90
APW12A80M100	10.00	100	0.021	5.40
APW12A80M120	12.00	100	0.024	4.90
APW12A80M150	15.00	100	0.027	4.50
APW12A80M180	18.00	100	0.039	3.90
APW12A80M220	22.00	100	0.043	3.60
APW12A80M270	27.00	100	0.045	3.40
APW12A80M330	33.00	100	0.064	3.00
APW12A80M390	39.00	100	0.072	2.75
APW12A80M470	47.00	100	0.077	2.50
APW12A80M560	56.00	100	0.097	2.35

### APW Series

Part Number	Inductance (µH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
APW12A80M680	68.00	100	0.10	2.10
APW12A80M820	82.00	100	0.12	1.95
APW12A80M101	100.00	100	0.15	1.70
APW12A80M121	120.00	100	0.17	1.60
APW12A80M151	150.00	100	0.19	1.42
APW12A80M181	180.00	100	0.25	1.30
APW12A80M221	220.00	100	0.35	1.16
APW12A80M271	270.00	100	0.39	1.06
APW12A80M331	330.00	100	0.48	0.95
APW12A80M391	390.00	100	0.54	0.88
APW12A80M471	470.00	100	0.79	0.79
APW12A80M561	560.00	100	0.87	0.73
APW12A80M681	680.00	100	1.00	0.67
APW12A80M821	820.00	100	1.20	0.60
APW12A80M102	1000.00	100	1.30	0.55
APW12A10M1R0	1.00	100	0.006	11.50
APW12A10M2R5	2.50	100	0.008	10.00
APW12A10M3R3	3.30	100	0.010	8.70
APW12A10M4R7	4.70	100	0.012	8.40
APW12A10M6R8	6.80	100	0.014	7.10
APW12A10M100	10.00	100	0.018	6.90
APW12A10M150	15.00	100	0.026	5.20
APW12A10M220	22.00	100	0.029	4.95
APW12A10M330	33.00	100	0.053	3.60
APW12A10M470	47.00	100	0.063	3.45
APW12A10M560	56.00	100	0.068	2.95
APW12A10M680	68.00	100	0.093	2.85
APW12A10M820	82.00	100	0.099	2.60
APW12A10M101	100.00	100	0.13	2.45
APW12A10M121	120.00	100	0.16	2.20
APW12A10M151	150.00	100	0.18	1.90
APW12A10M181	180.00	100	0.20	1.85
APW12A10M221	220.00	100	0.25	1.70
APW12A10M331	330.00	100	0.39	1.28
APW12A10M471	470.00	100	0.47	1.25
APW12A10M561	560.00	100	0.65	0.98
APW12A10M681	680.00	100	0.73	0.95
APW12A10M821	820.00	100	0.83	0.93
APW12A10M102	1000.00	100	1.25	0.78
APW12A10M152	1500.00	100	1.25	0.58
APW12A10M182	1800.00	100	2.00	0.54
APW12A10M222	2200.00	100	2.60	0.52

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