

AAPW Series

Features

- Qualified to AEC-Q200.
- 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.
- RoHS compliance.

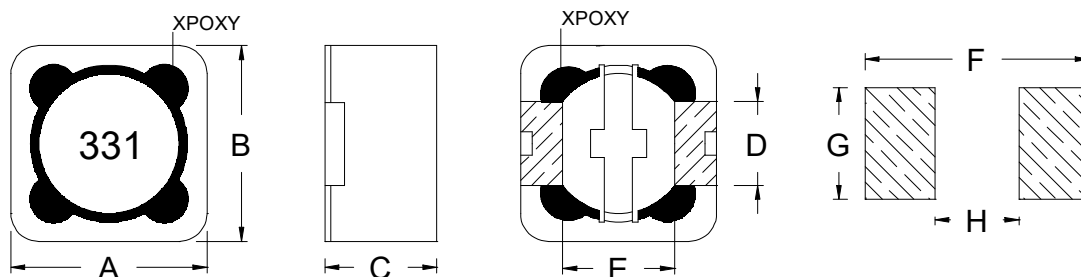
Applications

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

Test Equipment and Conditions

- All test data is referenced to 25°C ambient.
- Operating temperature range -40°C to +125°C.(Including self - temperature rise)
- DC current (I_{rms}) that will cause an approximate ΔT of 40°C.
- DC current (I_{sat}) that will cause L₀ to drop approximately 35%.

External Dimensions (Unit : m/m)



TYPE	A	B	C	D Typ.	E Typ.	F Typ.	G Typ.	H Typ.	Q'TY/Reel
AAPW07A30	7.5Max	7.5Max	3.4Max	2.0	5.0	8.5	3.25	3.5	1000
AAPW07A45	7.5Max	7.5Max	4.5Max	2.0	5.0	8.5	3.25	3.5	1000
AAPW12A45	12.5Max	12.5Max	4.5Max	5.0	7.6	12.6	5.4	7.0	500
AAPW12A60	12.5Max	12.5Max	6.0Max	5.0	7.6	12.6	5.4	7.0	500
AAPW12A80	12.5Max	12.5Max	8.0Max	5.0	7.6	12.6	5.4	7.0	500
AAPW12A10	12.5Max	12.5Max	10.0Max	5.0	7.6	12.6	5.4	7.0	300

Part Number Code

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

A: Series Name Power Inductors
 B: Dimensions(mm) 07: 7.5 x7.5 Max
 C: Materials A Type
 D: Thickness(mm) 30: 3.4 Max
 E: Tolerance M: ±20% N: ±30%
 F: Inductance 100=10uH

AAPW Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
AAPW07A30M100	10	100	0.072	1.68
AAPW07A30M120	12	100	0.098	1.52
AAPW07A30M150	15	100	0.13	1.33
AAPW07A30M180	18	100	0.14	1.20
AAPW07A30M220	22	100	0.19	1.07
AAPW07A30M270	27	100	0.21	0.96
AAPW07A30M330	33	100	0.24	0.91
AAPW07A30M390	39	100	0.32	0.77
AAPW07A30M470	47	100	0.36	0.76
AAPW07A30M560	56	100	0.47	0.68
AAPW07A30M680	68	100	0.52	0.61
AAPW07A30M820	82	100	0.69	0.57
AAPW07A30M101	100	100	0.79	0.50
AAPW07A30M121	120	100	0.89	0.49
AAPW07A30M151	150	100	1.27	0.43
AAPW07A30M181	180	100	1.45	0.39
AAPW07A30M221	220	100	1.65	0.35
AAPW07A30M271	270	100	2.31	0.32
AAPW07A30M331	330	100	2.62	0.28
AAPW07A30M391	390	100	2.94	0.26
AAPW07A30M471	470	100	4.18	0.24
AAPW07A45NR33	0.33	100	0.010	8.50
AAPW07A45N1R0	1.0	100	0.013	6.80
AAPW07A45N1R5	1.5	100	0.014	6.00
AAPW07A45M2R2	2.2	100	0.018	5.50
AAPW07A45M3R3	3.3	100	0.025	5.20
AAPW07A45M3R6	3.6	100	0.028	3.80
AAPW07A45M4R7	4.7	100	0.035	3.50
AAPW07A45M6R8	6.8	100	0.045	3.00
AAPW07A45M8R2	8.2	100	0.050	2.60
AAPW07A45M100	10	100	0.056	2.00
AAPW07A45M150	15	100	0.081	1.60
AAPW07A45M180	18	100	0.091	1.55
AAPW07A45M220	22	100	0.12	1.50
AAPW07A45M330	33	100	0.18	1.10
AAPW07A45M470	47	100	0.26	1.00
AAPW07A45M560	56	100	0.35	0.85
AAPW07A45M680	68	100	0.38	0.80
AAPW07A45M101	100	100	0.61	0.68
AAPW07A45M121	120	100	0.65	0.58
AAPW07A45M151	150	100	0.88	0.55
AAPW07A45M181	180	100	0.98	0.52

AAPW Series

Part Number	Inductance (µH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
AAPW07A45M221	220	100	1.17	0.50
AAPW07A45M271	270	100	1.64	0.45
AAPW07A45M331	330	100	1.86	0.42
AAPW07A45M471	470	100	3.01	0.38
AAPW07A45M561	560	100	3.1	0.37
AAPW07A45M681	680	100	3.6	0.35
AAPW12A45M2R2	2.2	100	0.008	7.0
AAPW12A45M2R7	2.7	100	0.012	6.7
AAPW12A45M3R5	3.5	100	0.015	6.6
AAPW12A45M3R9	3.9	100	0.015	6.5
AAPW12A45M4R7	4.7	100	0.018	5.6
AAPW12A45M5R6	5.6	100	0.018	5.2
AAPW12A45M6R8	6.8	100	0.022	4.9
AAPW12A45M7R6	7.6	100	0.026	4.7
AAPW12A45M8R2	8.2	100	0.026	4.6
AAPW12A45M100	10	100	0.028	4.5
AAPW12A45M120	12	100	0.038	4.0
AAPW12A45M150	15	100	0.050	3.2
AAPW12A45M180	18	100	0.057	3.1
AAPW12A45M220	22	100	0.066	2.9
AAPW12A45M270	27	100	0.080	2.8
AAPW12A45M330	33	100	0.097	2.7
AAPW12A45M390	39	100	0.132	2.1
AAPW12A45M470	47	100	0.150	1.9
AAPW12A45M560	56	100	0.180	1.8
AAPW12A45M680	68	100	0.220	1.5
AAPW12A45M820	82	100	0.260	1.3
AAPW12A45M101	100	100	0.308	1.2
AAPW12A45M121	120	100	0.380	1.1
AAPW12A45M151	150	100	0.530	0.95
AAPW12A45M181	180	100	0.620	0.85
AAPW12A45M221	220	100	0.700	0.8
AAPW12A45M271	270	100	0.875	0.6
AAPW12A45M331	330	100	0.990	0.5
AAPW12A60M1R8	1.8	100	0.005	8.0
AAPW12A60M2R7	2.7	100	0.007	7.0
AAPW12A60M3R9	3.9	100	0.009	6.0
AAPW12A60M4R7	4.7	100	0.012	5.3
AAPW12A60M6R1	6.1	100	0.013	4.8
AAPW12A60M6R8	6.8	100	0.014	4.7
AAPW12A60M7R6	7.6	100	0.017	4.5

AAPW Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
AAPW12A60M8R2	8.2	100	0.020	4.3
AAPW12A60M100	10	100	0.040	4.0
AAPW12A60M120	12	100	0.027	3.5
AAPW12A60M150	15	100	0.030	3.3
AAPW12A60M180	18	100	0.034	3.0
AAPW12A60M220	22	100	0.036	2.8
AAPW12A60M270	27	100	0.051	2.3
AAPW12A60M330	33	100	0.063	2.1
AAPW12A60M390	39	100	0.068	2.0
AAPW12A60M470	47	100	0.075	1.8
AAPW12A60M560	56	100	0.11	1.7
AAPW12A60M680	68	100	0.12	1.5
AAPW12A60M820	82	100	0.14	1.4
AAPW12A60M101	100	100	0.18	1.3
AAPW12A60M121	120	100	0.20	1.1
AAPW12A60M151	150	100	0.23	1.0
AAPW12A60M181	180	100	0.29	0.9
AAPW12A60M221	220	100	0.45	0.8
AAPW12A60M271	270	100	0.50	0.75
AAPW12A60M331	330	100	0.59	0.68
AAPW12A60M391	390	100	0.69	0.65
AAPW12A60M471	470	100	0.77	0.58
AAPW12A60M561	560	100	0.86	0.54
AAPW12A60M681	680	100	1.20	0.48
AAPW12A60M821	820	100	1.34	0.43
AAPW12A60M102	1000	100	1.53	0.4
AAPW12A80N1R0	1.0	100	0.0075	19.0
AAPW12A80N1R5	1.5	100	0.0085	18.5
AAPW12A80N2R2	2.2	100	0.0115	18.0
AAPW12A80N3R3	3.3	100	0.013	16.2
AAPW12A80N4R7	4.7	100	0.0158	14.0
AAPW12A80N5R6	5.6	100	0.017	12.5
AAPW12A80M6R8	6.8	100	0.019	11.0
AAPW12A80M8R2	8.2	100	0.021	10.0
AAPW12A80M100	10	100	0.023	9.0
AAPW12A80M120	12	100	0.030	8.0
AAPW12A80M150	15	100	0.032	7.0
AAPW12A80M180	18	100	0.035	6.8
AAPW12A80M220	22	100	0.045	6.0
AAPW12A80M270	27	100	0.051	5.0
AAPW12A80M330	33	100	0.070	4.8
AAPW12A80M390	39	100	0.085	4.2
AAPW12A80M470	47	100	0.10	4.16
AAPW12A80M560	56	100	0.12	3.8

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Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω) Max.	Saturation Current (A) Max.
AAPW12A80M680	68	100	0.13	3.5
AAPW12A80M101	100	100	0.22	2.8
AAPW12A80M151	150	100	0.26	2.24
AAPW12A80M181	180	100	0.312	2.10
AAPW12A80M221	220	100	0.403	2.08
AAPW12A80M271	270	100	0.520	1.65
AAPW12A80M331	330	100	0.580	1.55
AAPW12A80M471	470	100	0.852	1.30
AAPW12A80M561	560	100	0.963	1.12
AAPW12A80M681	680	100	1.200	1.04
AAPW12A80M821	820	100	1.463	0.88
AAPW12A80M102	1000	100	1.820	0.72
AAPW12A10N1R0	1.0	100	0.0055	19.90
AAPW12A10N1R8	1.8	100	0.0065	13.40
AAPW12A10N2R5	2.5	100	0.008	12.16
AAPW12A10N3R5	3.5	100	0.0097	12.0
AAPW12A10N4R7	4.7	100	0.011	11.0
AAPW12A10N5R8	5.8	100	0.0113	10.5
AAPW12A10M6R8	6.8	100	0.0115	10.0
AAPW12A10M7R5	7.5	100	0.014	8.48
AAPW12A10M100	10	100	0.017	8.20
AAPW12A10M120	12	100	0.0185	7.04
AAPW12A10M150	15	100	0.025	5.80
AAPW12A10M220	22	100	0.029	5.12
AAPW12A10M330	33	100	0.053	4.25
AAPW12A10M470	47	100	0.063	3.60
AAPW12A10M560	56	100	0.068	2.85
AAPW12A10M680	68	100	0.093	2.76
AAPW12A10M820	82	100	0.099	2.62
AAPW12A10M101	100	100	0.126	2.31
AAPW12A10M121	120	100	0.154	2.05
AAPW12A10M151	150	100	0.174	1.80
AAPW12A10M181	180	100	0.191	1.66
AAPW12A10M221	220	100	0.246	1.64
AAPW12A10M331	330	100	0.386	1.28
AAPW12A10M471	470	100	0.471	1.06
AAPW12A10M561	560	100	0.650	1.01
AAPW12A10M681	680	100	0.730	0.83
AAPW12A10M821	820	100	0.824	0.81
AAPW12A10M102	1000	100	1.22	0.70
AAPW12A10M122	1200	100	1.33	0.64