

AABG-H Series

Features

- Qualified to AEC-Q200.
- Fe base metal material core provides large saturation current.
- Metallization on Ferrite Core results in excellent shock resistance and damage-free durability.
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference(EMI).
- Low DCR decreases power loss, small and slim take up less PCB real estate.
- Automatic production ensures high quality and consistency.
- RoHS compliance.

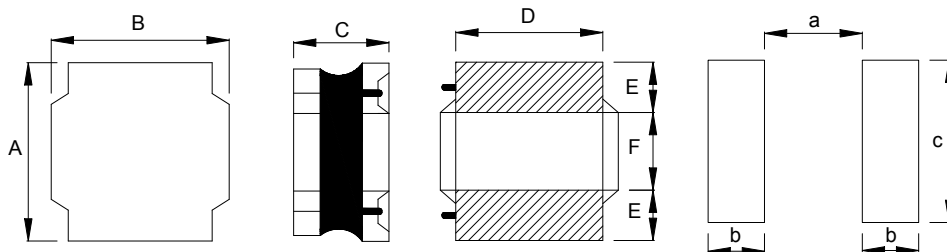
Applications

- LED Lighting & Smart phone.
- Blue -ray disc recorders, set top box.
- Next-generation mobile devices with multifunction such as adding color TV and digital movie cameras.
- Flat-screen TVs,blue-ray disc recorders set top box.
- Notebooks,desktop computers,servers,graphic cards.
- Portable gaming devices,personal navigation systems,personal multimedia devices.

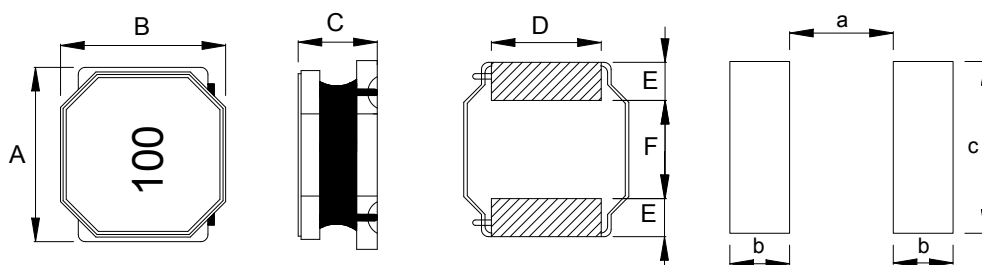
Test Equipment and Conditions

- Inductance is measured with IM3536 LCR meter or equivalent.
- Operating temperature range -40°C to +125°C.(Including self - temperature rise).
- DC current(Irms)that will cause an approximate ΔT of 40°C.
- DC current(Isat)that will cause L0 to drop approximately 35%.
- For AABG02 & AABG25 size inductors, absolute maximum voltage: DC 25V;
For AABG03 & AABG04 size inductors, absolute maximum voltage: DC 40V;

External dimensions (Unit:m/m)



Type	A	B	C	D Typ.	E Typ.	F Typ.	a Typ.	b Typ.	c Typ.	Q'TY/Reel
AABG02H10	2.1±0.3	1.7±0.3	1.05Max	1.7	0.7	0.7	0.4	1.0	2.0	2000
AABG25H10	2.5±0.3	2.2±0.3	1.05Max	1.65	0.8	0.9	0.6	1.1	1.95	2000
AABG25H12	2.5±0.3	2.2±0.3	1.25Max	1.65	0.8	0.9	0.6	1.1	1.95	2000



Type	A	B	C	D Typ.	E Typ.	F Typ.	a Typ.	b Typ.	c Typ.	Q'TY/Reel
AABG03H12	3.0±0.2	3.0±0.2	1.35Max	2.55	0.9	1.2	1.1	1.0	3.4	2000
AABG04H12	4.0±0.2	4.0±0.2	1.35Max	3.5	1.3	1.4	1.1	1.6	3.8	4500
AABG04H20	4.0±0.2	4.0±0.2	2.00Max	3.5	1.0	2.0	1.3	1.5	3.8	3000

Part Number Code

AABG 02 H 10 N R24
 A B C D E F

A: Series Name Power Inductors
 B: Dimensions(mm) 02: 2.1 x 1.7
 C: Materials H Type
 D: Thickness(mm) 10: 1.05 Max
 E: Tolerance N: $\pm 30\%$ M: $\pm 20\%$
 F: Inductance R24=0.24uH

AABG-H Series

Part Number	Inductance(μ H) @1MHz/1V	DC Resistance (Ω) Max.	Min Self-resonant Frequency(MHz)	Heat Rating Current Irms (A) Max.	Saturation Current Isat (A) Max.
AABG02H10NR24	0.24	0.039	145	3.02	4.54
AABG02H10NR39	0.39	0.053	104	4.10	4.10
AABG02H10NR47	0.47	0.055	102	2.72	4.03
AABG02H10NR68	0.68	0.064	77	2.53	3.53
AABG02H10M1R0	1.0	0.089	70	2.07	3.38
AABG02H10M1R5	1.5	0.128	45	1.72	1.97
AABG02H10M2R2	2.2	0.192	39	1.46	1.92
AABG02H10M4R7	4.7	0.423	25	0.91	1.21
AABG02H10M5R6	5.6	0.500	17	0.90	1.00
AABG02H10M6R8	6.8	0.540	16	0.53	0.73
AABG02H10M100	10.0	0.824	15	0.65	0.81
AABG25H10NR33	0.33	0.038	117	3.52	4.83
AABG25H10NR47	0.47	0.044	80	3.23	4.43
AABG02H10NR56	0.56	0.055	66	2.50	3.80
AABG25H10NR68	0.68	0.058	65	2.77	3.23
AABG25H10M1R0	1.0	0.075	46	2.51	3.12
AABG25H10M1R5	1.5	0.105	40	2.02	2.62
AABG25H10M2R2	2.2	0.153	26	1.51	1.91
AABG25H10M3R3	3.3	0.233	24	1.20	1.60
AABG25H10M4R7	4.7	0.300	19	1.11	1.31
AABG25H10M100	10.0	0.530	12	0.85	0.93
AABG25H12NR24	0.24	0.029	117	4.10	6.55
AABG25H12NR33	0.33	0.036	104	3.40	5.41
AABG25H12NR47	0.47	0.040	89	3.00	5.00
AABG25H12NR68	0.68	0.050	67	3.18	3.73
AABG25H12M1R0	1.0	0.060	52	3.03	3.70
AABG25H12M1R5	1.5	0.090	35	2.40	2.92
AABG25H12M2R2	2.2	0.117	32	1.96	2.60
AABG25H12M3R3	3.3	0.190	25	1.82	1.77
AABG25H12M4R7	4.7	0.256	23	1.26	1.66

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Part Number	Inductance(μ H) @1MHz/1V	DC Resistance (Ω) Max.	Min Self-resonant Frequency(MHz)	Heat Rating Current I _{rms} (A) Max.	Saturation Current I _{sat} (A) Max.
AABG25H12M6R8	6.8	0.364	16	0.97	1.20
AABG25H12M100	10.0	0.480	12	0.85	1.15
AABG03H12NR33	0.33	0.027	107	4.10	7.20
AABG03H12NR47	0.47	0.033	86	4.00	6.10
AABG03H12NR68	0.68	0.040	63	3.80	5.80
AABG03H12M1R0	1.0	0.054	51	2.80	4.00
AABG03H12M1R5	1.5	0.074	37	2.00	3.20
AABG03H12M2R2	2.2	0.108	28	1.90	2.20
AABG03H12M3R3	3.3	0.150	25	1.60	1.70
AABG03H12M4R7	4.7	0.230	20	1.40	1.50
AABG03H12M6R8	6.8	0.340	16	1.10	1.40
AABG03H12M100	10.0	0.460	12	0.90	1.00
AABG04H12NR33	0.33	0.032	113	4.50	8.00
AABG04H12NR47	0.47	0.040	96	4.20	7.50
AABG04H12NR68	0.68	0.040	70	4.10	5.00
AABG04H12M1R0	1.0	0.058	55	3.50	4.50
AABG04H12M1R2	1.2	0.064	48	3.20	4.00
AABG04H12M1R5	1.5	0.070	38	2.60	3.90
AABG04H12M2R2	2.2	0.096	28	2.50	2.80
AABG04H12M3R3	3.3	0.125	23	1.90	2.00
AABG04H12M4R7	4.7	0.166	19	1.70	1.80
AABG04H12M6R8	6.8	0.226	17	1.50	1.60
AABG04H12M100	10.0	0.335	12	1.30	1.50
AABG04H20NR47	0.47	0.022	72	7.00	10.0
AABG04H20NR68	0.68	0.035	57	5.00	8.70
AABG04H20M1R0	1.0	0.026	37	5.10	8.50
AABG04H20M1R5	1.5	0.036	30	4.50	7.20
AABG04H20M2R2	2.2	0.048	25	4.20	6.10
AABG04H20M3R3	3.3	0.072	19	3.50	4.20
AABG04H20M4R7	4.7	0.108	17	2.50	4.00
AABG04H20M6R8	6.8	0.156	13	2.10	3.00
AABG04H20M100	10.0	0.216	11	1.70	2.80