

AAPS-H Series

Features

- Qualified to AEC-Q200.
- Carbonyl powder Inductors.
- It corresponds to Ultra High current.
- Simple and Shield structure.
- Available tape and reel for auto insertion.
- Halogen Free.
- RoHS compliance.

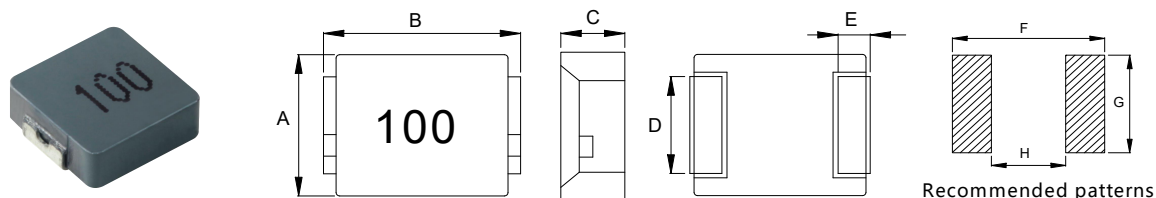
Applications

- For small DC/DC converter (cellular Phone , LCD/LED/OLED display ,HDD,DSC etc).

Test Equipment and Conditions

- All test data is referenced to 25°C ambient.
- DC current (Irms) that will cause an approximate ΔT of 40°C.
- DC current (Isat) that will cause Lo to drop approximately 40%.
- Operating temperature range -55°C to +125°C.
- Absolute maximum voltage 30VDC.

External Dimensions (Unit:mm)



TYPE	A	B	C	D typ	E typ	F typ	G typ	H typ	Q'TY/Reel
AAPS0320	3.2±0.3	3.8Max	2.0Max	1.2	0.7	4.1	1.45	1.9	3000
AAPS0420	4.2±0.3	4.8Max	2.0Max	2.0	0.8	5.2	2.5	2.2	3000
AAPS0530	5.2±0.3	6.0Max	3.0Max	2.0	1.2	6.0	2.5	2.2	2000
AAPS0618	6.6±0.3	7.7Max	1.8Max	3.0	1.6	8.4	3.5	3.7	2000
AAPS0624	6.6±0.3	7.7Max	2.4Max	3.0	1.6	8.4	3.5	3.7	1500
AAPS0630	6.6±0.3	7.7Max	3.0Max	3.0	1.6	8.4	3.5	3.7	1500
AAPS0650	6.6±0.3	7.7Max	5.0Max	3.0	1.6	8.4	3.5	3.7	1000
AAPS1040	10.0±0.3	11.5Max	4.0Max	3.0	2.0	13.6	4.1	5.4	500
AAPS1350	12.6±0.3	14.0Max	5.0Max	See Remark	2.0	14.2	5.0	8.0	500
AAPS1360	12.6±0.3	14.0Max	6.0Max	See Remark	2.0	14.2	5.0	8.0	500
AAPS1365	12.6±0.3	14.0Max	6.5Max	See Remark	2.0	14.2	5.0	8.0	500
AAPS1770	17.0±0.3	18.0Max	7.0Max	12.0	2.5	18.2	12.8	11.2	200

Remark:

TYPE	D(mm)Typ.	
	3.85	4.7
AAPS1350	R33~1R5	2R2~330
AAPS1360	R47~1R5	2R2~151
AAPS1365	R47~1R5	2R2~680

Part Number Code

AAPS	0320	M	R33	H
Series Name	Dimensions: L*W*H	Tolerance 20%	Inductance	Internal controls

AAPS-H Series

Part Number	Inductance (μ H) @100KHz/1V	DC Resistance (m Ω)Max.	Heat Rating Current I _{rms} (A)Typ.	Saturation Current I _{sat} (A)Typ.
AAPS0320MR33H	0.33	21	8.05	10.1
AAPS0320MR47H	0.47	22.8	7.2	9.3
AAPS0320MR68H	0.68	28.8	5.65	7.2
AAPS0320M1R0H	1	37.5	4.1	5.15
AAPS0320M1R5H	1.5	49.5	3.88	4.1
AAPS0320M2R2H	2.2	74	3.55	3.78
AAPS0320M3R3H	3.3	142.5	3.05	3.55
AAPS0320M4R7H	4.7	196.5	2.63	3.05
AAPS0320M5R6H	5.6	233.3	2.23	2.63
AAPS0320M6R8H	6.8	295	1.92	2.23
AAPS0320M8R2H	8.2	385	1.62	1.92
AAPS0320M100H	10	417	1.42	1.62
AAPS0420MR33H	0.33	8.6	10	18.2
AAPS0420MR47H	0.47	13.9	8.1	12.35
AAPS0420MR68H	0.68	19	7.25	10.1
AAPS0420M1R0H	1	26.6	5.25	8.6
AAPS0420M1R5H	1.5	41.8	4.15	7.2
AAPS0420M2R2H	2.2	61	4.25	6.15
AAPS0420M3R3H	3.3	76	3.5	4
AAPS0420M4R7H	4.7	105	2.65	3.58
AAPS0420M6R8H	6.8	172	2.1	2.84
AAPS0420M100H	10	243	1.84	2.32

AAPS-H Series

Part Number	Inductance (μ H) @100KHz/1V	DC Resistance (m Ω)Max.	Heat Rating Current Irms (A)Typ.	Saturation Current Isat (A)Typ.
AAPS0530MR22H	0.22	4.4	15.5	21
AAPS0530MR33H	0.33	5	14	18
AAPS0530MR47H	0.47	7.4	12	16
AAPS0530MR68H	0.68	12	8.5	14
AAPS0530MR82H	0.82	13	8	12.5
AAPS0530M1R0H	1	14	7	11
AAPS0530M1R5H	1.5	25	6	10
AAPS0530M2R2H	2.2	35	5.5	9
AAPS0530M3R3H	3.3	38	5	8
AAPS0530M4R7H	4.7	53	4.6	6
AAPS0530M5R6H	5.6	63	4.25	4.5
AAPS0530M6R8H	6.8	76.2	4	4.3
AAPS0530M100H	10	128	2.75	3.5
AAPS0530M150H	15	190	2.1	2.6
AAPS0618MR22H	0.22	3	16	26
AAPS0618MR33H	0.33	5.8	14	22
AAPS0618MR47H	0.47	7.4	12	18
AAPS0618MR68H	0.68	11	10	17
AAPS0618MR82H	0.82	14	8.5	15.5
AAPS0618M1R0H	1	17	7	14
AAPS0618M1R5H	1.5	25.2	6	13
AAPS0618M2R2H	2.2	35	6	11
AAPS0618M3R3H	3.3	46	5	9
AAPS0618M4R7H	4.7	76	4	7
AAPS0618M6R8H	6.8	104	3	5.5
AAPS0618M100H	10	160	2.3	3.5
AAPS0624MR15H	0.15	2.3	30	45
AAPS0624MR22H	0.22	3.2	21	34
AAPS0624MR33H	0.33	4.4	18	30
AAPS0624MR47H	0.47	5.1	15	26
AAPS0624MR68H	0.68	7.2	13	21
AAPS0624MR82H	0.82	9.5	11	17
AAPS0624M1R0H	1	13.5	10	16
AAPS0624M1R5H	1.5	20	9	15

AAPS-H Series

Part Number	Inductance (μ H) @100KHz/1V	DC Resistance (m Ω)Max.	Heat Rating Current I _{rms} (A)Typ.	Saturation Current I _{sat} (A)Typ.
AAPS0624M2R2H	2.2	28	7	14
AAPS0624M3R3H	3.3	39	6	10
AAPS0624M4R7H	4.7	50	5.5	9
AAPS0624M6R8H	6.8	72	4	7
AAPS0624M100H	10	101	3.2	5
AAPS0630NR10H	0.1	1.7	32.5	60
AAPS0630MR15H	0.15	1.9	27	45
AAPS0630MR22H	0.22	2.8	23	40
AAPS0630MR33H	0.33	3.9	20	32
AAPS0630MR47H	0.47	4.2	17.5	26
AAPS0630MR56H	0.56	5	16.5	25.5
AAPS0630MR68H	0.68	5.5	15.5	25
AAPS0630MR82H	0.82	8	13	24
AAPS0630M1R0H	1	10	11	22
AAPS0630M1R5H	1.5	15	9	18
AAPS0630M2R2H	2.2	20	8	14
AAPS0630M3R3H	3.3	30	6	13.5
AAPS0630M4R7H	4.7	40	5.5	10
AAPS0630M5R6H	5.6	48	5	9
AAPS0630M6R8H	6.8	60	4.5	8
AAPS0630M8R2H	8.2	68	4	7.5
AAPS0630M100H	10	85	3.5	6
AAPS0630M150H	15	123	3	4
AAPS0630M220H	22	190	2	3.5
AAPS0630M330H	33	240	2	2.5
AAPS0630M470H	47	363	1.75	2
AAPS0650MR22H	0.22	1.9	25	35
AAPS0650MR33H	0.33	3	25	32
AAPS0650MR47H	0.47	3.9	22	30
AAPS0650MR68H	0.68	4.5	18	24
AAPS0650M1R0H	1	6.5	15	20
AAPS0650M1R5H	1.5	9	12	16.5
AAPS0650M2R2H	2.2	12	10	14
AAPS0650M3R3H	3.3	20.9	8	12

AAPS-H Series

Part Number	Inductance (μ H) @100KHz/1V	DC Resistance (m Ω)Max.	Heat Rating Current Irms (A)Typ.	Saturation Current Isat (A)Typ.
AAPS0650M4R7H	4.7	30.8	6.5	10
AAPS0650M5R6H	5.6	49	6	9
AAPS0650M6R8H	6.8	51.5	5.5	8.5
AAPS0650M8R2H	8.2	63	5	8
AAPS0650M100H	10	69	4	7.5
AAPS0650M150H	15	92	3.5	6
AAPS0650M220H	22	170	2.5	5.5
AAPS0650M330H	33	200	2	3.5
AAPS1040MR22H	0.22	1	35	60
AAPS1040MR36H	0.36	1.2	31	60
AAPS1040MR45H	0.45	1.5	29	45
AAPS1040MR47H	0.47	1.5	28	43
AAPS1040MR56H	0.56	1.8	25	40
AAPS1040MR68H	0.68	2.7	22	39
AAPS1040M1R0H	1	3.3	18	36
AAPS1040M1R5H	1.5	4.6	16	33
AAPS1040M2R2H	2.2	7	12	27
AAPS1040M3R3H	3.3	11.8	11	20
AAPS1040M4R7H	4.7	15.5	10	17
AAPS1040M5R6H	5.6	19.3	9	14
AAPS1040M6R8H	6.8	23.3	8.5	13.5
AAPS1040M100H	10	30	7.5	12
AAPS1040M150H	15	45	6.25	10
AAPS1040M220H	22	74	5	7
AAPS1040M330H	33	112	3.5	5
AAPS1040M470H	47	167	3	4.5
AAPS1350MR33H	0.33	0.9	42	80
AAPS1350MR47H	0.47	1.1	38	65
AAPS1350MR56H	0.56	1.5	36	55
AAPS1350MR68H	0.68	1.7	34	54
AAPS1350MR82H	0.82	2.1	31	52
AAPS1350M1R0H	1	2.5	29	50
AAPS1350M1R5H	1.5	3.3	27	48
AAPS1350M2R2H	2.2	5.5	20	32

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Part Number	Inductance (μ H) @100KHz/1V	DC Resistance (m Ω)Max.	Heat Rating Current Irms (A)Typ.	Saturation Current Isat (A)Typ.
AAPS1350M3R3H	3.3	9.2	15	32
AAPS1350M4R7H	4.7	15	12	27
AAPS1350M5R6H	5.6	16.5	11.5	22
AAPS1350M6R8H	6.8	18.5	11	21
AAPS1350M8R2H	8.2	22.5	9.5	18
AAPS1350M100H	10	25.5	9	16
AAPS1350M150H	15	38	8.2	13
AAPS1350M220H	22	58	6.5	10
AAPS1350M330H	33	88	5	8
AAPS1360MR47H	0.47	1.3	38	64
AAPS1360MR68H	0.68	1.7	33	57
AAPS1360M1R0H	1	2.4	29	53
AAPS1360M1R5H	1.5	3.2	26	50
AAPS1360M2R2H	2.2	4.7	21	43
AAPS1360M3R3H	3.3	7.1	17	35
AAPS1360M4R7H	4.7	11.5	16	30
AAPS1360M6R8H	6.8	13.8	15	25
AAPS1360M8R2H	8.2	16	11	23
AAPS1360M100H	10	20.7	11	21
AAPS1360M150H	15	29	9	16
AAPS1360M220H	22	39.5	8	14
AAPS1360M330H	33	75	6	12
AAPS1360M470H	47	90	5.5	11
AAPS1360M680H	68	140	5	9
AAPS1360M820H	82	161	4.5	8.5
AAPS1360M101H	100	200	4	8
AAPS1360M121H	120	235	3.5	7
AAPS1365MR47H	0.47	1.2	41	63
AAPS1365MR68H	0.68	1.5	35	55
AAPS1365M1R0H	1	2.3	30	48
AAPS1365M1R5H	1.5	3	27	45
AAPS1365M2R2H	2.2	4.2	22	37
AAPS1365M3R3H	3.3	6.8	18	30
AAPS1365M4R7H	4.7	8.4	13.5	28

AAPS-H Series

Part Number	Inductance (μ H) @100KHz/1V	DC Resistance (m Ω)Max.	Heat Rating Current I _{rms} (A)Typ.	Saturation Current I _{sat} (A)Typ.
AAPS1365M6R8H	6.8	11.5	11.5	18
AAPS1365M8R2H	8.2	15.5	10.5	16
AAPS1365M100H	10	16.5	10	15.5
AAPS1365M150H	15	28	9	13
AAPS1365M220H	22	37	9	12
AAPS1365M330H	33	58	8	11
AAPS1365M470H	47	90	6.5	9.5
AAPS1365M680H	68	130	4.8	7.8
AAPS1770M1R0H	1	2	52	60
AAPS1770M1R5H	1.5	2.5	47	52
AAPS1770M2R2H	2.2	2.7	43.5	47
AAPS1770M3R3H	3.3	3.9	28	45
AAPS1770M4R7H	4.7	5.5	25	41
AAPS1770M6R8H	6.8	9.2	19	32
AAPS1770M8R2H	8.2	10.8	18	25
AAPS1770M100H	10	13	16.5	24
AAPS1770M150H	15	20.5	12.5	23
AAPS1770M220H	22	26.5	12	18
AAPS1770M330H	33	44	10.7	15
AAPS1770M390H	39	48	9.2	11
AAPS1770M470H	47	55	8.7	9.5
AAPS1770M560H	56	62	7.8	9
AAPS1770M680H	68	80	7	8
AAPS1770M101H	100	118	5.3	6.5