

AAPSW-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.

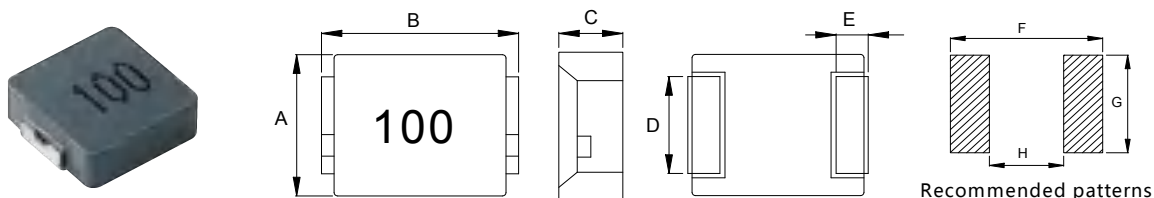
Applications

- 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
AAPSW03H20	3.2±0.3	3.8Max	2.0Max	1.2	0.7	4.1	1.45	1.9	3000
AAPSW04H20	4.2±0.3	4.8Max	2.0Max	2.0	0.8	5.2	2.5	2.2	3000
AAPSW05H20	5.2±0.3	6.0Max	2.0Max	2.0	1.2	6.0	2.5	2.2	2000
AAPSW05H30	5.2±0.3	6.0Max	3.0Max	2.0	1.2	6.0	2.5	2.2	2000
AAPSW07H18	6.6±0.3	7.7Max	1.8Max	3.0	1.6	8.4	3.5	3.7	2000
AAPSW07H24	6.6±0.3	7.7Max	2.4Max	3.0	1.6	8.4	3.5	3.7	1500
AAPSW07H30	6.6±0.3	7.7Max	3.0Max	3.0	1.6	8.4	3.5	3.7	1500
AAPSW07H50	6.6±0.3	7.7Max	5.0Max	3.0	1.6	8.4	3.5	3.7	1000
AAPSW10H40	10.0±0.3	11.5Max	4.0Max	3.0	2.0	13.6	4.1	5.4	500
AAPSW13H35	12.6±0.3	14.0Max	3.5Max	See Remark	2.0	14.2	5.0	8.0	500
AAPSW13H50	12.6±0.3	14.0Max	5.0Max	See Remark	2.0	14.2	5.0	8.0	500
AAPSW13H60	12.6±0.3	14.0Max	6.0Max	See Remark	2.0	14.2	5.0	8.0	500
AAPSW13H65	12.6±0.3	14.0Max	6.5Max	See Remark	2.0	14.2	5.0	8.0	500
AAPSW17H70	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
AAPSW13H35	R47~R82	1R0~470
AAPSW13H50	R33~1R5	2R2~330
AAPSW13H60	R47~1R5	2R2~151
AAPSW13H65	R47~1R5	2R2~680

Part Number Code

AAPSW	03	H	20	LC	M	R47
Series Name	Dimensions: L*W	Materials	Dimensions: H	Internal control	Tolerance 20%	Inductance

AAPSW-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.
AAPSW03H20LCMR33	0.33	21	8.05	10.1
AAPSW03H20LCMR47	0.47	22.8	7.2	9.3
AAPSW03H20LCMR68	0.68	28.8	5.65	7.2
AAPSW03H20LCM1R0	1	37.5	4.1	5.15
AAPSW03H20LCM1R5	1.5	49.5	3.88	4.1
AAPSW03H20LCM2R2	2.2	74	3.55	3.78
AAPSW03H20LCM3R3	3.3	142.5	3.05	3.55
AAPSW03H20LCM4R7	4.7	196.5	2.63	3.05
AAPSW03H20LCM5R6	5.6	233.3	2.23	2.63
AAPSW03H20LCM6R8	6.8	295	1.92	2.23
AAPSW03H20LCM8R2	8.2	385	1.62	1.92
AAPSW03H20LCM100	10	417	1.42	1.62
AAPSW04H20LCMR33	0.33	8.6	10	18.2
AAPSW04H20LCMR47	0.47	13.9	8.1	12.35
AAPSW04H20LCMR68	0.68	19	7.25	10.1
AAPSW04H20LCM1R0	1	26.6	5.25	8.6
AAPSW04H20LCM1R5	1.5	41.8	4.15	7.2
AAPSW04H20LCM2R2	2.2	61	4.25	6.15
AAPSW04H20LCM3R3	3.3	76	3.5	4
AAPSW04H20LCM4R7	4.7	105	2.65	3.58
AAPSW04H20LCM6R8	6.8	172	2.1	2.84

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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.
AAPSW04H20LCM100	10	243	1.84	2.32
AAPSW05H20LCMR22	0.22	5.5	15	25
AAPSW05H20LCMR33	0.33	7.3	12	21.3
AAPSW05H20LCMR47	0.47	8.6	11.5	18
AAPSW05H20LCMR68	0.68	12.4	10	12.8
AAPSW05H20LCM1R0	1	20	7	13.7
AAPSW05H20LCM1R5	1.5	30.5	5.5	9.8
AAPSW05H20LCM2R2	2.2	50	4.2	9
AAPSW05H20LCM3R3	3.3	76	3.3	7.3
AAPSW05H20LCM4R7	4.7	116	2.8	5
AAPSW05H20LCM6R8	6.8	150	2.4	3.8
AAPSW05H20LCM100	10	199	2.3	3.4
AAPSW05H30LCMR22	0.22	4.4	15.5	21
AAPSW05H30LCMR33	0.33	5	14	18
AAPSW05H30LCMR47	0.47	7.4	12	16
AAPSW05H30LCMR68	0.68	12	8.5	14
AAPSW05H30LCMR82	0.82	13	8	12.5
AAPSW05H30LCM1R0	1	14	7	11
AAPSW05H30LCM1R5	1.5	25	6	10
AAPSW05H30LCM2R2	2.2	35	5.5	9
AAPSW05H30LCM3R3	3.3	38	5	8
AAPSW05H30LCM4R7	4.7	53	4.6	6
AAPSW05H30LCM5R6	5.6	63	4.25	4.5
AAPSW05H30LCM6R8	6.8	76.2	4	4.3
AAPSW05H30LCM100	10	128	2.75	3.5
AAPSW05H30LCM150	15	190	2.1	2.6
AAPSW07H18LCMR22	0.22	3	16	26
AAPSW07H18LCMR33	0.33	5.8	14	22
AAPSW07H18LCMR47	0.47	7.4	12	18
AAPSW07H18LCMR68	0.68	11	10	17
AAPSW07H18LCMR82	0.82	14	8.5	15.5
AAPSW07H18LCM1R0	1	17	7	14
AAPSW07H18LCM1R5	1.5	25.2	6	13
AAPSW07H18LCM2R2	2.2	35	6	11

AAPSW-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.
AAPSW07H18LCM3R3	3.3	46	5	9
AAPSW07H18LCM4R7	4.7	76	4	7
AAPSW07H18LCM6R8	6.8	104	3	5.5
AAPSW07H18LCM100	10	160	2.3	3.5
AAPSW07H24LCMR15	0.15	2.3	30	45
AAPSW07H24LCMR22	0.22	3.2	21	34
AAPSW07H24LCMR33	0.33	4.4	18	30
AAPSW07H24LCMR47	0.47	5.1	15	26
AAPSW07H24LCMR68	0.68	7.2	13	21
AAPSW07H24LCMR82	0.82	9.5	11	17
AAPSW07H24LCM1R0	1	13.5	10	16
AAPSW07H24LCM1R5	1.5	20	9	15
AAPSW07H24LCM2R2	2.2	28	7	14
AAPSW07H24LCM3R3	3.3	39	6	10
AAPSW07H24LCM4R7	4.7	50	5.5	9
AAPSW07H24LCM6R8	6.8	72	4	7
AAPSW07H24LCM100	10	101	3.2	5
AAPSW07H30LCNR10	0.1	1.7	32.5	60
AAPSW07H30LCMR15	0.15	1.9	27	45
AAPSW07H30LCMR22	0.22	2.8	23	40
AAPSW07H30LCMR33	0.33	3.9	20	32
AAPSW07H30LCMR47	0.47	4.2	17.5	26
AAPSW07H30LCMR56	0.56	5	16.5	25.5
AAPSW07H30LCMR68	0.68	5.5	15.5	25
AAPSW07H30LCMR82	0.82	8	13	24
AAPSW07H30LCM1R0	1	10	11	22
AAPSW07H30LCM1R5	1.5	15	9	18
AAPSW07H30LCM2R2	2.2	20	8	14
AAPSW07H30LCM3R3	3.3	30	6	13.5
AAPSW07H30LCM4R7	4.7	40	5.5	10
AAPSW07H30LCM5R6	5.6	48	5	9
AAPSW07H30LCM6R8	6.8	60	4.5	8
AAPSW07H30LCM8R2	8.2	68	4	7.5
AAPSW07H30LCM100	10	85	3.5	6

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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.
AAPSW07H30LCM150	15	123	3	4
AAPSW07H30LCM220	22	190	2	3.5
AAPSW07H30LCM330	33	240	2	2.5
AAPSW07H30LCM470	47	363	1.75	2
AAPSW07H50LCMR22	0.22	1.9	25	35
AAPSW07H50LCMR33	0.33	3	25	32
AAPSW07H50LCMR47	0.47	3.9	22	30
AAPSW07H50LCMR68	0.68	4.5	18	24
AAPSW07H50LCM1R0	1	6.5	15	20
AAPSW07H50LCM1R5	1.5	9	12	16.5
AAPSW07H50LCM2R2	2.2	12	10	14
AAPSW07H50LCM3R3	3.3	20.9	8	12
AAPSW07H50LCM4R7	4.7	30.8	6.5	10
AAPSW07H50LCM5R6	5.6	49	6	9
AAPSW07H50LCM6R8	6.8	51.5	5.5	8.5
AAPSW07H50LCM8R2	8.2	63	5	8
AAPSW07H50LCM100	10	69	4	7.5
AAPSW07H50LCM150	15	92	3.5	6
AAPSW07H50LCM220	22	170	2.5	5.5
AAPSW07H50LCM330	33	200	2	3.5
AAPSW10H40LCMR22	0.22	1	35	60
AAPSW10H40LCMR36	0.36	1.2	31	60
AAPSW10H40LCMR45	0.45	1.5	29	45
AAPSW10H40LCMR47	0.47	1.5	28	43
AAPSW10H40LCMR56	0.56	1.8	25	40
AAPSW10H40LCMR68	0.68	2.7	22	39
AAPSW10H40LCM1R0	1	3.3	18	36
AAPSW10H40LCM1R5	1.5	4.6	16	33
AAPSW10H40LCM2R2	2.2	7	12	27
AAPSW10H40LCM3R3	3.3	11.8	11	20
AAPSW10H40LCM4R7	4.7	15.5	10	17
AAPSW10H40LCM5R6	5.6	19.3	9	14
AAPSW10H40LCM6R8	6.8	23.3	8.5	13.5
AAPSW10H40LCM100	10	30	7.5	12

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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.
AAPSW10H40LCM150	15	45	6.25	10
AAPSW10H40LCM220	22	74	5	7
AAPSW10H40LCM330	33	112	3.5	5
AAPSW10H40LCM470	47	167	3	4.5
AAPSW13H35LCMR47	0.47	2	32	55
AAPSW13H35LCMR68	0.68	2.5	28	49
AAPSW13H35LCMR82	0.82	3	25	44
AAPSW13H35LCM1R0	1	3.5	24	40
AAPSW13H35LCM1R5	1.5	5.5	19	35
AAPSW13H35LCM2R2	2.2	8	16	29
AAPSW13H35LCM3R3	3.3	12	12	27
AAPSW13H35LCM4R7	4.7	18	10	22
AAPSW13H35LCM5R6	5.6	22	9.5	19
AAPSW13H35LCM6R8	6.8	24	9	18
AAPSW13H35LCM8R2	8.2	28	8.5	16
AAPSW13H35LCM100	10	34	7.5	14
AAPSW13H35LCM150	15	65	6.5	10
AAPSW13H35LCM220	22	99	4.5	7
AAPSW13H35LCM330	33	160	3.5	6
AAPSW13H35LCM470	47	218	3	5.5
AAPSW13H50LCMR33	0.33	0.9	42	80
AAPSW13H50LCMR47	0.47	1.1	38	65
AAPSW13H50LCMR56	0.56	1.5	36	55
AAPSW13H50LCMR68	0.68	1.7	34	54
AAPSW13H50LCMR82	0.82	2.1	31	52
AAPSW13H50LCM1R0	1	2.5	29	50
AAPSW13H50LCM1R5	1.5	3.3	27	48
AAPSW13H50LCM2R2	2.2	5.5	20	32
AAPSW13H50LCM3R3	3.3	9.2	15	32
AAPSW13H50LCM4R7	4.7	15	12	27
AAPSW13H50LCM5R6	5.6	16.5	11.5	22
AAPSW13H50LCM6R8	6.8	18.5	11	21
AAPSW13H50LCM8R2	8.2	22.5	9.5	18
AAPSW13H50LCM100	10	25.5	9	16

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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.
AAPSW13H50LCM150	15	38	8.2	13
AAPSW13H50LCM220	22	58	6.5	10
AAPSW13H50LCM330	33	88	5	8
AAPSW13H60LCMR47	0.47	1.3	38	64
AAPSW13H60LCMR68	0.68	1.7	33	57
AAPSW13H60LCM1R0	1	2.4	29	53
AAPSW13H60LCM1R5	1.5	3.2	26	50
AAPSW13H60LCM2R2	2.2	4.7	21	43
AAPSW13H60LCM3R3	3.3	7.1	17	35
AAPSW13H60LCM4R7	4.7	11.5	16	30
AAPSW13H60LCM6R8	6.8	13.8	15	25
AAPSW13H60LCM8R2	8.2	16	11	23
AAPSW13H60LCM100	10	20.7	11	21
AAPSW13H60LCM150	15	29	9	16
AAPSW13H60LCM220	22	39.5	8	14
AAPSW13H60LCM330	33	75	6	12
AAPSW13H60LCM470	47	90	5.5	11
AAPSW13H60LCM680	68	140	5	9
AAPSW13H60LCM820	82	161	4.5	8.5
AAPSW13H60LCM101	100	200	4	8
AAPSW13H60LCM121	120	235	3.5	7
AAPSW13H65LCMR47	0.47	1.2	41	63
AAPSW13H65LCMR68	0.68	1.5	35	55
AAPSW13H65LCM1R0	1	2.3	30	48
AAPSW13H65LCM1R5	1.5	3	27	45
AAPSW13H65LCM2R2	2.2	4.2	22	37
AAPSW13H65LCM3R3	3.3	6.8	18	30
AAPSW13H65LCM4R7	4.7	8.4	13.5	28
AAPSW13H65LCM6R8	6.8	11.5	11.5	18
AAPSW13H65LCM8R2	8.2	15.5	10.5	16
AAPSW13H65LCM100	10	16.5	10	15.5
AAPSW13H65LCM150	15	28	9	13
AAPSW13H65LCM220	22	37	9	12
AAPSW13H65LCM330	33	58	8	11

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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.
AAPSW13H65LCM470	47	90	6.5	9.5
AAPSW13H65LCM680	68	130	4.8	7.8
AAPSW17H70LCM1R0	1	2	52	60
AAPSW17H70LCM1R5	1.5	2.5	47	52
AAPSW17H70LCM2R2	2.2	2.7	43.5	47
AAPSW17H70LCM3R3	3.3	3.9	28	45
AAPSW17H70LCM4R7	4.7	5.5	25	41
AAPSW17H70LCM6R8	6.8	9.2	19	32
AAPSW17H70LCM8R2	8.2	10.8	18	25
AAPSW17H70LCM100	10	13	16.5	24
AAPSW17H70LCM150	15	20.5	12.5	23
AAPSW17H70LCM220	22	26.5	12	18
AAPSW17H70LCM330	33	44	10.7	15
AAPSW17H70LCM390	39	48	9.2	11
AAPSW17H70LCM470	47	55	8.7	9.5
AAPSW17H70LCM560	56	62	7.8	9
AAPSW17H70LCM680	68	80	7	8
AAPSW17H70LCM101	100	118	5.3	6.5