

APSW-H Series

Features

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

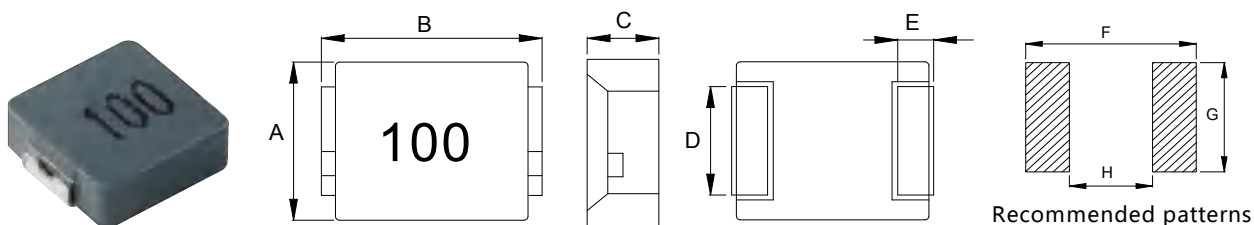
Applications

- 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
APSW03H20	3.2±0.3	3.8Max	2.0Max	1.2	0.7	4.1	1.45	1.9	3000
APSW04H20	4.2±0.3	4.8Max	2.0Max	2.0	0.8	5.2	2.5	2.2	3000
APSW05H20	5.2±0.3	6.0Max	2.0Max	2.0	1.2	6.0	2.5	2.2	2000
APSW05H30	5.2±0.3	6.0Max	3.0Max	2.0	1.2	6.0	2.5	2.2	2000
APSW07H18	6.6±0.3	7.7Max	1.8Max	3.0	1.6	8.4	3.5	3.7	2000
APSW07H24	6.6±0.3	7.7Max	2.4Max	3.0	1.6	8.4	3.5	3.7	1500
APSW07H30	6.6±0.3	7.7Max	3.0Max	3.0	1.6	8.4	3.5	3.7	1500
APSW07H50	6.6±0.3	7.7Max	5.0Max	3.0	1.6	8.4	3.5	3.7	1000
APSW10H40	10.0±0.3	11.5Max	4.0Max	3.0	2.0	13.6	4.1	5.4	500
APSW13H35	12.6±0.3	14.0Max	3.5Max	See Remark	2.0	14.2	5.0	8.0	500
APSW13H50	12.6±0.3	14.0Max	5.0Max	See Remark	2.0	14.2	5.0	8.0	500
APSW13H60	12.6±0.3	14.0Max	6.0Max	See Remark	2.0	14.2	5.0	8.0	500
APSW13H65	12.6±0.3	14.0Max	6.5Max	See Remark	2.0	14.2	5.0	8.0	500
APSW17H70	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
APSW13H35	R47~R82	1R0~470
APSW13H50	R33~1R5	2R2~330
APSW13H60	R47~1R5	2R2~121
APSW13H65	R47~1R5	2R2~680

Part Number Code

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

APSW-H Series

Part Number	Inductance (μH) @100KHz/1V	DC Resistance (mΩ)Max.	Heat Rating Current I _{rms} (A)Typ.	Saturation Current I _{sat} (A)Typ.
APSW03H20LCMR33	0.33	21	8.05	10.1
APSW03H20LCMR47	0.47	22.8	7.2	9.3
APSW03H20LCMR68	0.68	28.8	5.65	7.2
APSW03H20LCM1R0	1	37.5	4.1	5.15
APSW03H20LCM1R5	1.5	49.5	3.88	4.1
APSW03H20LCM2R2	2.2	74	3.55	3.78
APSW03H20LCM3R3	3.3	142.5	3.05	3.55
APSW03H20LCM4R7	4.7	196.5	2.63	3.05
APSW03H20LCM5R6	5.6	233.3	2.23	2.63
APSW03H20LCM6R8	6.8	295	1.92	2.23
APSW03H20LCM8R2	8.2	385	1.62	1.92
APSW03H20LCM100	10	417	1.42	1.62
APSW04H20LCMR33	0.33	8.6	10	18.2
APSW04H20LCMR47	0.47	13.9	8.1	12.35
APSW04H20LCMR68	0.68	19	7.25	10.1
APSW04H20LCM1R0	1	26.6	5.25	8.6
APSW04H20LCM1R5	1.5	41.8	4.15	7.2
APSW04H20LCM2R2	2.2	61	4.25	6.15
APSW04H20LCM3R3	3.3	76	3.5	4
APSW04H20LCM4R7	4.7	105	2.65	3.58
APSW04H20LCM6R8	6.8	172	2.1	2.84
APSW04H20LCM100	10	243	1.84	2.32
APSW05H20LCMR22	0.22	5.5	15	25

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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.
APSW05H20LCMR33	0.33	7.3	12	21.3
APSW05H20LCMR47	0.47	8.6	11.5	18
APSW05H20LCMR68	0.68	12.4	10	12.8
APSW05H20LCM1R0	1	20	7	13.7
APSW05H20LCM1R5	1.5	30.5	5.5	9.8
APSW05H20LCM2R2	2.2	50	4.2	9
APSW05H20LCM3R3	3.3	76	3.3	7.3
APSW05H20LCM4R7	4.7	116	2.8	5
APSW05H20LCM6R8	6.8	150	2.4	3.8
APSW05H20LCM100	10	199	2.3	3.4
APSW05H30LCMR22	0.22	4.4	15.5	21
APSW05H30LCMR33	0.33	5	14	18
APSW05H30LCMR47	0.47	7.4	12	16
APSW05H30LCMR68	0.68	12	8.5	14
APSW05H30LCMR82	0.82	13	8	12.5
APSW05H30LCM1R0	1	14	7	11
APSW05H30LCM1R5	1.5	25	6	10
APSW05H30LCM2R2	2.2	35	5.5	9
APSW05H30LCM3R3	3.3	38	5	8
APSW05H30LCM4R7	4.7	53	4.6	6
APSW05H30LCM5R6	5.6	63	4.25	4.5
APSW05H30LCM6R8	6.8	76.2	4	4.3
APSW05H30LCM100	10	128	2.75	3.5
APSW05H30LCM150	15	190	2.1	2.6
APSW07H18LCMR22	0.22	3	16	26
APSW07H18LCMR33	0.33	5.8	14	22
APSW07H18LCMR47	0.47	7.4	12	18
APSW07H18LCMR68	0.68	11	10	17
APSW07H18LCMR82	0.82	14	8.5	15.5
APSW07H18LCM1R0	1	17	7	14
APSW07H18LCM1R5	1.5	25.2	6	13
APSW07H18LCM2R2	2.2	35	6	11
APSW07H18LCM3R3	3.3	46	5	9
APSW07H18LCM4R7	4.7	76	4	7
APSW07H18LCM6R8	6.8	104	3	5.5
APSW07H18LCM100	10	160	2.3	3.5

APSW-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.
APSW07H24LCMR15	0.15	2.3	30	45
APSW07H24LCMR22	0.22	3.2	21	34
APSW07H24LCMR33	0.33	4.4	18	30
APSW07H24LCMR47	0.47	5.1	15	26
APSW07H24LCMR68	0.68	7.2	13	21
APSW07H24LCMR82	0.82	9.5	11	17
APSW07H24LCM1R0	1	13.5	10	16
APSW07H24LCM1R5	1.5	20	9	15
APSW07H24LCM2R2	2.2	28	7	14
APSW07H24LCM3R3	3.3	39	6	10
APSW07H24LCM4R7	4.7	50	5.5	9
APSW07H24LCM6R8	6.8	72	4	7
APSW07H24LCM100	10	101	3.2	5
APSW07H30LCNR10	0.1	1.7	32.5	60
APSW07H30LCMR15	0.15	1.9	27	45
APSW07H30LCMR22	0.22	2.8	23	40
APSW07H30LCMR33	0.33	3.9	20	32
APSW07H30LCMR47	0.47	4.2	17.5	26
APSW07H30LCMR56	0.56	5	16.5	25.5
APSW07H30LCMR68	0.68	5.5	15.5	25
APSW07H30LCMR82	0.82	8	13	24
APSW07H30LCM1R0	1	10	11	22
APSW07H30LCM1R5	1.5	15	9	18
APSW07H30LCM2R2	2.2	20	8	14
APSW07H30LCM3R3	3.3	30	6	13.5
APSW07H30LCM4R7	4.7	40	5.5	10
APSW07H30LCM5R6	5.6	48	5	9
APSW07H30LCM6R8	6.8	60	4.5	8
APSW07H30LCM8R2	8.2	68	4	7.5
APSW07H30LCM100	10	85	3.5	6
APSW07H30LCM150	15	123	3	4
APSW07H30LCM220	22	190	2	3.5
APSW07H30LCM330	33	240	2	2.5
APSW07H30LCM470	47	363	1.75	2
APSW07H50LCMR22	0.22	1.9	25	35
APSW07H50LCMR33	0.33	3	25	32

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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.
APSW07H50LCMR47	0.47	3.9	22	30
APSW07H50LCMR68	0.68	4.5	18	24
APSW07H50LCM1R0	1	6.5	15	20
APSW07H50LCM1R5	1.5	9	12	16.5
APSW07H50LCM2R2	2.2	12	10	14
APSW07H50LCM3R3	3.3	20.9	8	12
APSW07H50LCM4R7	4.7	30.8	6.5	10
APSW07H50LCM5R6	5.6	49	6	9
APSW07H50LCM6R8	6.8	51.5	5.5	8.5
APSW07H50LCM8R2	8.2	63	5	8
APSW07H50LCM100	10	69	4	7.5
APSW07H50LCM150	15	92	3.5	6
APSW07H50LCM220	22	170	2.5	5.5
APSW07H50LCM330	33	200	2	3.5
APSW10H40LCMR22	0.22	1	35	60
APSW10H40LCMR36	0.36	1.2	31	60
APSW10H40LCMR45	0.45	1.5	29	45
APSW10H40LCMR47	0.47	1.5	28	43
APSW10H40LCMR56	0.56	1.8	25	40
APSW10H40LCMR68	0.68	2.7	22	39
APSW10H40LCM1R0	1	3.3	18	36
APSW10H40LCM1R5	1.5	4.6	16	33
APSW10H40LCM2R2	2.2	7	12	27
APSW10H40LCM3R3	3.3	11.8	11	20
APSW10H40LCM4R7	4.7	15.5	10	17
APSW10H40LCM5R6	5.6	19.3	9	14
APSW10H40LCM6R8	6.8	23.3	8.5	13.5
APSW10H40LCM100	10	30	7.5	12
APSW10H40LCM150	15	45	6.25	10
APSW10H40LCM220	22	74	5	7
APSW10H40LCM330	33	112	3.5	5
APSW10H40LCM470	47	167	3	4.5
APSW13H35LCMR47	0.47	2	32	55
APSW13H35LCMR68	0.68	2.5	28	49
APSW13H35LCMR82	0.82	3	25	44
APSW13H35LCM1R0	1	3.5	24	40

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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.
APSW13H35LCM1R5	1.5	5.5	19	35
APSW13H35LCM2R2	2.2	8	16	29
APSW13H35LCM3R3	3.3	12	12	27
APSW13H35LCM4R7	4.7	18	10	22
APSW13H35LCM5R6	5.6	22	9.5	19
APSW13H35LCM6R8	6.8	24	9	18
APSW13H35LCM8R2	8.2	28	8.5	16
APSW13H35LCM100	10	34	7.5	14
APSW13H35LCM150	15	65	6.5	10
APSW13H35LCM220	22	99	4.5	7
APSW13H35LCM330	33	160	3.5	6
APSW13H35LCM470	47	218	3	5.5
APSW13H50LCMR33	0.33	0.9	42	80
APSW13H50LCMR47	0.47	1.1	38	65
APSW13H50LCMR56	0.56	1.5	36	55
APSW13H50LCMR68	0.68	1.7	34	54
APSW13H50LCMR82	0.82	2.1	31	52
APSW13H50LCM1R0	1	2.5	29	50
APSW13H50LCM1R5	1.5	3.3	27	48
APSW13H50LCM2R2	2.2	5.5	20	32
APSW13H50LCM3R3	3.3	9.2	15	32
APSW13H50LCM4R7	4.7	15	12	27
APSW13H50LCM5R6	5.6	16.5	11.5	22
APSW13H50LCM6R8	6.8	18.5	11	21
APSW13H50LCM8R2	8.2	22.5	9.5	18
APSW13H50LCM100	10	25.5	9	16
APSW13H50LCM150	15	38	8.2	13
APSW13H50LCM220	22	58	6.5	10
APSW13H50LCM330	33	88	5	8
APSW13H60LCMR47	0.47	1.3	38	64
APSW13H60LCMR68	0.68	1.7	33	57
APSW13H60LCM1R0	1	2.4	29	53
APSW13H60LCM1R5	1.5	3.2	26	50
APSW13H60LCM2R2	2.2	4.7	21	43
APSW13H60LCM3R3	3.3	7.1	17	35
APSW13H60LCM4R7	4.7	11.5	16	30

APSW-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.
APSW13H60LCM6R8	6.8	13.8	15	25
APSW13H60LCM8R2	8.2	16	11	23
APSW13H60LCM100	10	20.7	11	21
APSW13H60LCM150	15	29	9	16
APSW13H60LCM220	22	39.5	8	14
APSW13H60LCM330	33	75	6	12
APSW13H60LCM470	47	90	5.5	11
APSW13H60LCM680	68	140	5	9
APSW13H60LCM820	82	161	4.5	8.5
APSW13H60LCM101	100	200	4	8
APSW13H60LCM121	120	235	3.5	7
APSW13H65LCMR47	0.47	1.2	41	63
APSW13H65LCMR68	0.68	1.5	35	55
APSW13H65LCM1R0	1	2.3	30	48
APSW13H65LCM1R5	1.5	3	27	45
APSW13H65LCM2R2	2.2	4.2	22	37
APSW13H65LCM3R3	3.3	6.8	18	30
APSW13H65LCM4R7	4.7	8.4	13.5	28
APSW13H65LCM6R8	6.8	11.5	11.5	18
APSW13H65LCM8R2	8.2	15.5	10.5	16
APSW13H65LCM100	10	16.5	10	15.5
APSW13H65LCM150	15	28	9	13
APSW13H65LCM220	22	37	9	12
APSW13H65LCM330	33	58	8	11
APSW13H65LCM470	47	90	6.5	9.5
APSW13H65LCM680	68	130	4.8	7.8
APSW17H70LCM1R0	1	2	52	60
APSW17H70LCM1R5	1.5	2.5	47	52
APSW17H70LCM2R2	2.2	2.7	43.5	47
APSW17H70LCM3R3	3.3	3.9	28	45
APSW17H70LCM4R7	4.7	5.5	25	41
APSW17H70LCM6R8	6.8	9.2	19	32
APSW17H70LCM8R2	8.2	10.8	18	25
APSW17H70LCM100	10	13	16.5	24
APSW17H70LCM150	15	20.5	12.5	23
APSW17H70LCM220	22	26.5	12	18

APSW-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.
APSW17H70LCM330	33	44	10.7	15
APSW17H70LCM390	39	48	9.2	11
APSW17H70LCM470	47	55	8.7	9.5
APSW17H70LCM560	56	62	7.8	9
APSW17H70LCM680	68	80	7	8
APSW17H70LCM101	100	118	5.3	6.5