

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.

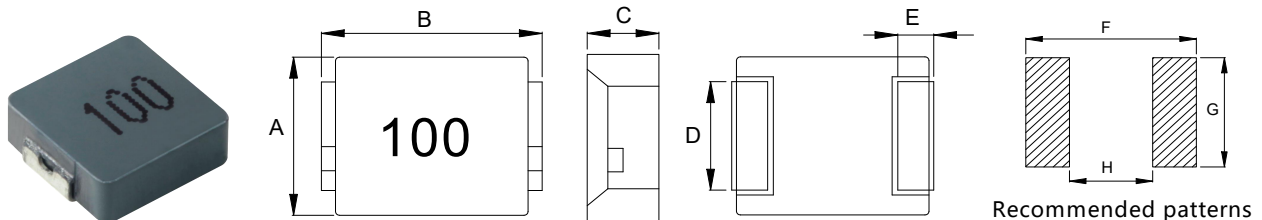
Applications

- 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
APS0320	3.2±0.3	3.8Max	2.0Max	1.2	0.7	4.1	1.45	1.9	3000
APS0420	4.2±0.3	4.8Max	2.0Max	2.0	0.8	5.2	2.5	2.2	3000
APS0530	5.2±0.3	6.0Max	3.0Max	2.0	1.2	6.0	2.5	2.2	2000
APS0618	6.6±0.3	7.7Max	1.8Max	3.0	1.6	8.4	3.5	3.7	2000
APS0624	6.6±0.3	7.7Max	2.4Max	3.0	1.6	8.4	3.5	3.7	1500
APS0630	6.6±0.3	7.7Max	3.0Max	3.0	1.6	8.4	3.5	3.7	1500
APS0650	6.6±0.3	7.7Max	5.0Max	3.0	1.6	8.4	3.5	3.7	1000
APS1040	10.0±0.3	11.5Max	4.0Max	3.0	2.0	13.6	4.1	5.4	500
APS1350	12.6±0.3	14.0Max	5.0Max	See Remark	2.0	14.2	5.0	8.0	500
APS1360	12.6±0.3	14.0Max	6.0Max	See Remark	2.0	14.2	5.0	8.0	500
APS1365	12.6±0.3	14.0Max	6.5Max	See Remark	2.0	14.2	5.0	8.0	500
APS1770	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
APS1350	R33~1R5	2R2~330
APS1360	R47~1R5	2R2~121
APS1365	R47~1R5	2R2~680

Part Number Code

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

APS-H Series

Part Number	Inductance (μH) @100KHz/1V	DC Resistance (mΩ)Max.	Heat Rating Current Irms (A)Typ.	Saturation Current Isat (A)Typ.
APS0320MR33H	0.33	21	8.05	10.1
APS0320MR47H	0.47	22.8	7.2	9.3
APS0320MR68H	0.68	28.8	5.65	7.2
APS0320M1R0H	1	37.5	4.1	5.15
APS0320M1R5H	1.5	49.5	3.88	4.1
APS0320M2R2H	2.2	74	3.55	3.78
APS0320M3R3H	3.3	142.5	3.05	3.55
APS0320M4R7H	4.7	196.5	2.63	3.05
APS0320M5R6H	5.6	233.3	2.23	2.63
APS0320M6R8H	6.8	295	1.92	2.23
APS0320M8R2H	8.2	385	1.62	1.92
APS0320M100H	10	417	1.42	1.62
APS0420MR33H	0.33	8.6	10	18.2
APS0420MR47H	0.47	13.9	8.1	12.35
APS0420MR68H	0.68	19	7.25	10.1
APS0420M1R0H	1	26.6	5.25	8.6
APS0420M1R5H	1.5	41.8	4.15	7.2
APS0420M2R2H	2.2	61	4.25	6.15
APS0420M3R3H	3.3	76	3.5	4
APS0420M4R7H	4.7	105	2.65	3.58
APS0420M6R8H	6.8	172	2.1	2.84
APS0420M100H	10	243	1.84	2.32

APS-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.
APS0530MR22H	0.22	4.4	15.5	21
APS0530MR33H	0.33	5	14	18
APS0530MR47H	0.47	7.4	12	16
APS0530MR68H	0.68	12	8.5	14
APS0530MR82H	0.82	13	8	12.5
APS0530M1R0H	1	14	7	11
APS0530M1R5H	1.5	25	6	10
APS0530M2R2H	2.2	35	5.5	9
APS0530M3R3H	3.3	38	5	8
APS0530M4R7H	4.7	53	4.6	6
APS0530M5R6H	5.6	63	4.25	4.5
APS0530M6R8H	6.8	76.2	4	4.3
APS0530M100H	10	128	2.75	3.5
APS0530M150H	15	190	2.1	2.6
APS0618MR22H	0.22	3	16	26
APS0618MR33H	0.33	5.8	14	22
APS0618MR47H	0.47	7.4	12	18
APS0618MR68H	0.68	11	10	17
APS0618MR82H	0.82	14	8.5	15.5
APS0618M1R0H	1	17	7	14
APS0618M1R5H	1.5	25.2	6	13
APS0618M2R2H	2.2	35	6	11
APS0618M3R3H	3.3	46	5	9
APS0618M4R7H	4.7	76	4	7
APS0618M6R8H	6.8	104	3	5.5
APS0618M100H	10	160	2.3	3.5
APS0624MR15H	0.15	2.3	30	45
APS0624MR22H	0.22	3.2	21	34
APS0624MR33H	0.33	4.4	18	30
APS0624MR47H	0.47	5.1	15	26
APS0624MR68H	0.68	7.2	13	21
APS0624MR82H	0.82	9.5	11	17
APS0624M1R0H	1	13.5	10	16
APS0624M1R5H	1.5	20	9	15

APS-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.
APS0624M2R2H	2.2	28	7	14
APS0624M3R3H	3.3	39	6	10
APS0624M4R7H	4.7	50	5.5	9
APS0624M6R8H	6.8	72	4	7
APS0624M100H	10	101	3.2	5
APS0630NR10H	0.1	1.7	32.5	60
APS0630MR15H	0.15	1.9	27	45
APS0630MR22H	0.22	2.8	23	40
APS0630MR33H	0.33	3.9	20	32
APS0630MR47H	0.47	4.2	17.5	26
APS0630MR56H	0.56	5	16.5	25.5
APS0630MR68H	0.68	5.5	15.5	25
APS0630MR82H	0.82	8	13	24
APS0630M1R0H	1	10	11	22
APS0630M1R5H	1.5	15	9	18
APS0630M2R2H	2.2	20	8	14
APS0630M3R3H	3.3	30	6	13.5
APS0630M4R7H	4.7	40	5.5	10
APS0630M5R6H	5.6	48	5	9
APS0630M6R8H	6.8	60	4.5	8
APS0630M8R2H	8.2	68	4	7.5
APS0630M100H	10	85	3.5	6
APS0630M150H	15	123	3	4
APS0630M220H	22	190	2	3.5
APS0630M330H	33	240	2	2.5
APS0630M470H	47	363	1.75	2
APS0650MR22H	0.22	1.9	25	35
APS0650MR33H	0.33	3	25	32
APS0650MR47H	0.47	3.9	22	30
APS0650MR68H	0.68	4.5	18	24
APS0650M1R0H	1	6.5	15	20
APS0650M1R5H	1.5	9	12	16.5
APS0650M2R2H	2.2	12	10	14
APS0650M3R3H	3.3	20.9	8	12

APS-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.
APS0650M4R7H	4.7	30.8	6.5	10
APS0650M5R6H	5.6	49	6	9
APS0650M6R8H	6.8	51.5	5.5	8.5
APS0650M8R2H	8.2	63	5	8
APS0650M100H	10	69	4	7.5
APS0650M150H	15	92	3.5	6
APS0650M220H	22	170	2.5	5.5
APS0650M330H	33	200	2	3.5
APS1040MR22H	0.22	1	35	60
APS1040MR36H	0.36	1.2	31	60
APS1040MR45H	0.45	1.5	29	45
APS1040MR47H	0.47	1.5	28	43
APS1040MR56H	0.56	1.8	25	40
APS1040MR68H	0.68	2.7	22	39
APS1040M1R0H	1	3.3	18	36
APS1040M1R5H	1.5	4.6	16	33
APS1040M2R2H	2.2	7	12	27
APS1040M3R3H	3.3	11.8	11	20
APS1040M4R7H	4.7	15.5	10	17
APS1040M5R6H	5.6	19.3	9	14
APS1040M6R8H	6.8	23.3	8.5	13.5
APS1040M100H	10	30	7.5	12
APS1040M150H	15	45	6.25	10
APS1040M220H	22	74	5	7
APS1040M330H	33	112	3.5	5
APS1040M470H	47	167	3	4.5
APS1350MR33H	0.33	0.9	42	80
APS1350MR47H	0.47	1.1	38	65
APS1350MR56H	0.56	1.5	36	55
APS1350MR68H	0.68	1.7	34	54
APS1350MR82H	0.82	2.1	31	52
APS1350M1R0H	1	2.5	29	50
APS1350M1R5H	1.5	3.3	27	48
APS1350M2R2H	2.2	5.5	20	32

APS-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.
APS1350M3R3H	3.3	9.2	15	32
APS1350M4R7H	4.7	15	12	27
APS1350M5R6H	5.6	16.5	11.5	22
APS1350M6R8H	6.8	18.5	11	21
APS1350M8R2H	8.2	22.5	9.5	18
APS1350M100H	10	25.5	9	16
APS1350M150H	15	38	8.2	13
APS1350M220H	22	58	6.5	10
APS1350M330H	33	88	5	8
APS1360MR47H	0.47	1.3	38	64
APS1360MR68H	0.68	1.7	33	57
APS1360M1R0H	1	2.4	29	53
APS1360M1R5H	1.5	3.2	26	50
APS1360M2R2H	2.2	4.7	21	43
APS1360M3R3H	3.3	7.1	17	35
APS1360M4R7H	4.7	11.5	16	30
APS1360M6R8H	6.8	13.8	15	25
APS1360M8R2H	8.2	16	11	23
APS1360M100H	10	20.7	11	21
APS1360M150H	15	29	9	16
APS1360M220H	22	39.5	8	14
APS1360M330H	33	75	6	12
APS1360M470H	47	90	5.5	11
APS1360M680H	68	140	5	9
APS1360M820H	82	161	4.5	8.5
APS1360M101H	100	200	4	8
APS1360M121H	120	235	3.5	7
APS1365MR47H	0.47	1.2	41	63
APS1365MR68H	0.68	1.5	35	55
APS1365M1R0H	1	2.3	30	48
APS1365M1R5H	1.5	3	27	45
APS1365M2R2H	2.2	4.2	22	37
APS1365M3R3H	3.3	6.8	18	30
APS1365M4R7H	4.7	8.4	13.5	28

APS-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.
APS1365M6R8H	6.8	11.5	11.5	18
APS1365M8R2H	8.2	15.5	10.5	16
APS1365M100H	10	16.5	10	15.5
APS1365M150H	15	28	9	13
APS1365M220H	22	37	9	12
APS1365M330H	33	58	8	11
APS1365M470H	47	90	6.5	9.5
APS1365M680H	68	130	4.8	7.8
APS1770M1R0H	1	2	52	60
APS1770M1R5H	1.5	2.5	47	52
APS1770M2R2H	2.2	2.7	43.5	47
APS1770M3R3H	3.3	3.9	28	45
APS1770M4R7H	4.7	5.5	25	41
APS1770M6R8H	6.8	9.2	19	32
APS1770M8R2H	8.2	10.8	18	25
APS1770M100H	10	13	16.5	24
APS1770M150H	15	20.5	12.5	23
APS1770M220H	22	26.5	12	18
APS1770M330H	33	44	10.7	15
APS1770M390H	39	48	9.2	11
APS1770M470H	47	55	8.7	9.5
APS1770M560H	56	62	7.8	9
APS1770M680H	68	80	7	8
APS1770M101H	100	118	5.3	6.5