MOLDING POWER INDUCTORS

1. Features

- High rated current
- Frequency up to 3 MHz
- 125℃ maximum total temperature operation
- Low core loss
- Ultra low buzz noise due to molding construction
- Halogen Free & ROHS compliant

2. Applications

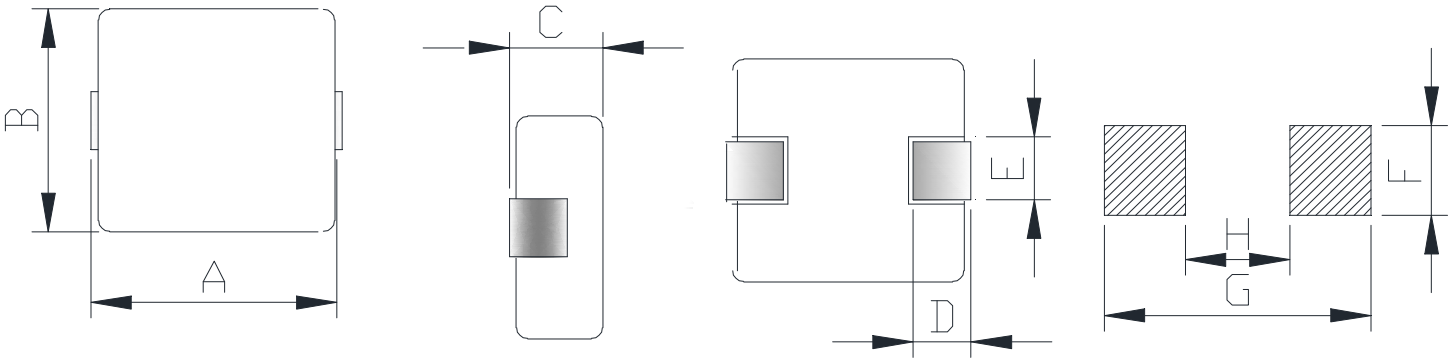
- Laptops and PC
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

3. Product Identification

AMDP	XXXX	--- XXX	M
①	②	③	④

① Series name
② Dimensions and shape（0412~1260）
③ Inductance Value
④ Inductance Tolerance (M= ± 20%)

4. SHAPES AND DIMENSIONS(unit:mm)

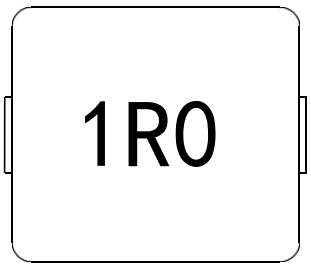


Series	Dimensions(mm)							
	A Max .	B Max .	C Max .	D	E	F Ref.	G Ref.	H Ref.
AMDP-0412B	4.9	4.5	1.2	1.0±0.1	2.0±0.3	2.5	5.2	2.2
AMDP-0415B	4.9	4.5	1.5	1.0±0.1	2.0±0.3	2.5	5.2	2.2
AMDP-0420B	4.9	4.5	2.0	1.0±0.1	2.0±0.3	2.5	5.2	2.2
AMDP-0518B	5.7	5.4	1.8	1.5±0.1	2.2±0.3	2.5	6.0	2.2
AMDP-0530B	5.7	5.4	3.0	1.5±0.1	2.2±0.3	2.5	6.0	2.2
AMDP-0612B	7.3	6.8	1.2	2.0±0.1	3.0±0.3	3.5	8.4	3.7
AMDP-0618B	7.3	6.8	1.8	2.0±0.1	3.0±0.3	3.5	8.4	3.7
AMDP-0624B	7.3	6.8	2.4	2.0±0.1	3.0±0.3	3.5	8.4	3.7
AMDP-0630B	7.3	6.8	3.0	2.0±0.1	3.0±0.3	3.5	8.4	3.7
AMDP-0640B	7.3	6.8	4.0	2.0±0.1	3.0±0.3	3.5	8.4	3.7
AMDP-0650B	7.3	6.8	5.0	2.0±0.1	3.0±0.3	3.5	7.3	3.7
AMDP-1030B	11.8	10.8	3.0	2.0±0.5	3.0±0.5	4.1	13.6	5.4
AMDP-1040B	11.8	10.8	4.0	2.0±0.5	3.0±0.5	4.1	13.6	5.4
AMDP-1050B	11.8	10.8	5.0	2.0±0.5	3.0±0.5	4.1	13.6	5.4
AMDP-1335B	14.5	13.5	3.5	2.5±0.5	3.5±0.5	4.5	14.5	8.0
AMDP-1350B	14.5	13.5	5.0	2.5±0.5	3.5±0.5	4.5	14.5	8.0
AMDP-1360B	14.5	13.5	6.0	2.5±0.5	3.5±0.5	4.5	14.5	8.0
AMDP-1770B	17.5	17.15	7.0	2.11±0.3	11.94±0.3	12.32	20.07	12.42

5. Marking

The inductor is marked with a 3-digit code

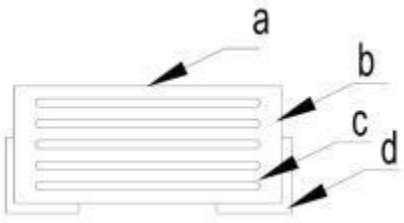
Nominal Inductance	
Example	Nominal Value
1R0	1.0 μH
100	10 μH
101	100 μH



Note：Using Ink for marking

6. Structure and Components

Symbol	Components	Material
a	MARKING	Ink(black)
b	CORE	Alloy Sponge Powder
c	WIRE	Polyurethane copper wire
d	Terminal	Copper plated with Sn



7. Electrical characteristics

0412 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0412B-R15M	0.15	8.0	9.0	7.5	15.0
AMDP-0412B-R22M	0.22	9.5	11.0	7.0	11.0
AMDP-0412B-R33M	0.33	17.0	19.0	6.5	8.4
AMDP-0412B-R47M	0.47	19.0	21.0	6.0	6.8
AMDP-0412B-R68M	0.68	32.0	36.0	4.7	6.0
AMDP-0412B-1R0M	1.0	43.0	47.0	4.5	5.5
AMDP-0412B-1R5M	1.5	68.0	75.0	3.25	4.0
AMDP-0412B-2R2M	2.2	79.4	83.5	2.75	3.5
AMDP-0412B-4R7M	4.7	175.0	195.0	1.8	2.8

0415 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	.MAX.	TYP.	TYP.
AMDP-0415B-R22M	0.22	6.0	7.5	12.0	14.0
AMDP-0415B-R47M	0.47	11.0	14.0	8.4	9.0
AMDP-0415B-1R0M	1.0	23.0	27.0	5.6	6.0
AMDP-0415B-1R5M	1.5	48.0	58.0	4.0	5.2
AMDP-0415B-2R2M	2.2	65.0	78.0	3.3	4.5
AMDP-0415B-3R3M	3.3	77.0	92.0	3.0	3.5
AMDP-0415B-4R7M	4.7	108.0	130.0	2.2	3.0
AMDP-0415B-6R8M	6.8	172.0	207.0	2.0	2.3

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0420 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0420B-R10M	0.10	3.5	4.0	13.0	22.0
AMDP-0420B-R22M	0.22	6.0	6.6	9.5	12.5
AMDP-0420B-R33M	0.33	9.0	11.0	10.0	12.0
AMDP-0420B-R47M	0.47	12.5	14.0	7.5	9.5
AMDP-0420B-R56M	0.56	14.0	16.0	7.0	10.0
AMDP-0420B-R68M	0.68	16.0	18.0	7.0	9.0
AMDP-0420B-1R0M	1.0	24.0	27.0	6.0	7.0
AMDP-0420B-1R2M	1.2	24.0	27.0	6.0	7.0
AMDP-0420B-1R5M	1.5	38.0	46.0	5.0	6.0
AMDP-0420B-2R2M	2.2	52.0	58.0	4.5	5.0
AMDP-0420B-3R3M	3.3	74.0	87.0	3.3	4.0
AMDP-0420B-4R7M	4.7	92.0	105.0	2.8	3.0
AMDP-0420B-6R8M	6.8	160.0	175.0	2.4	2.5
AMDP-0420B-100M	10.0	256.0	282.0	1.6	2.2
AMDP-0420B-220M	22.0	330.0	363.0	1.2	1.65

0518 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0518B-R47M	0.47	7.7	9.0	10.5	15.5
AMDP-0518B-R56M	0.56	8.0	10.0	9.5	15.0
AMDP-0518B-1R0M	1.0	15.0	17.0	8.0	9.0
AMDP-0518B-1R5M	1.5	21.0	26.0	7.5	9.0
AMDP-0518B-2R2M	2.2	30.0	35.0	5.0	6.5
AMDP-0518B-3R3M	3.3	52.0	58.0	4.5	5.0
AMDP-0518B-4R7M	4.7	78.0	85.0	3.5	4.0
AMDP-0518B-6R8M	6.8	107.0	120.0	2.8	3.4
AMDP-0518B-100M	10.0	140.0	155.0	2.5	3.0

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0530 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0530B-R10M	0.10	2.4	3.0	25.0	33.0
AMDP-0530B-R20M	0.20	3.5	3.9	14.0	14.5
AMDP-0530B-R33M	0.33	4.5	5.5	14.0	18.0
AMDP-0530B-R47M	0.47	7.4	8.5	11.0	12.0
AMDP-0530B-R68M	0.68	11.0	12.0	9.0	11.5
AMDP-0530B-1R0M	1.0	13.0	14.0	8.5	11.0
AMDP-0530B-1R2M	1.2	15.0	16.0	8.5	11.0
AMDP-0530B-1R5M	1.5	20.0	25.0	8.2	8.5
AMDP-0530B-2R2M	2.2	25.0	29.0	7.0	7.5
AMDP-0530B-3R3M	3.3	32.0	38.0	5.5	6.0
AMDP-0530B-4R7M	4.7	50.0	60.0	4.5	5.0
AMDP-0530B-6R8M	6.8	75.0	90.0	3.5	4.0
AMDP-0530B-100M	10.0	110.0	125.0	3.2	3.5

0612 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0612B-R56M	0.56	13.5	15.5	8.0	11.0
AMDP-0612B-R68M	0.68	15.0	17.5	7.0	9.0
AMDP-0612B-1R0M	1.0	25.0	29.0	6.0	7.5
AMDP-0612B-2R2M	2.2	51.0	58.0	4.0	5.0
AMDP-0612B-3R3M	3.3	80.0	92.0	3.5	4.0
AMDP-0612B-4R7M	4.7	106.0	122.0	3.0	3.5
AMDP-0612B-6R8M	6.8	185.0	210.0	2.5	2.8
AMDP-0612B-100M	10.0	250.0	280.0	2.0	2.2

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0618 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0618B-R10M	0.1	2.0	2.3	25.0	38.0
AMDP-0618B-R22M	0.22	3.0	3.5	22.0	24.0
AMDP-0618B-R47M	0.47	8.0	8.4	11.5	18.0
AMDP-0618B-R68M	0.68	10.0	12.0	9.5	17.0
AMDP-0618B-1R0M	1.0	13.0	16.0	8.5	14.0
AMDP-0618B-1R5M	1.5	20.0	26.0	8.0	9.2
AMDP-0618B-2R2M	2.2	28.0	35.0	7.0	8.0
AMDP-0618B-3R3M	3.3	43.0	50.0	4.5	6.5
AMDP-0618B-4R7M	4.7	56.0	62.0	4.0	5.0
AMDP-0618B-6R8M	6.8	101.0	110.0	3.0	4.5
AMDP-0618B-100M	10.0	140.0	155.0	2.3	2.5
AMDP-0618B-220M	22.0	310.0	350.0	1.8	2.3

0624 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0624B-R22M	0.22	2.5	3.0	21.0	34.0
AMDP-0624B-R33M	0.33	3.5	4.1	18.0	24.5
AMDP-0624B-R47M	0.47	4.5	5.1	15.0	22.0
AMDP-0624B-R56M	0.56	5.5	6.5	13.0	17.0
AMDP-0624B-R68M	0.68	6.2	7.0	12.0	16.0
AMDP-0624B-1R0M	1.0	11.0	13.5	9.0	16.0
AMDP-0624B-1R5M	1.5	17.0	20.0	9.0	13.5
AMDP-0624B-2R2M	2.2	23.0	28.0	7.0	11.0
AMDP-0624B-3R3M	3.3	31.0	39.0	5.5	8.5
AMDP-0624B-4R7M	4.7	41.0	50.0	5.0	7.5
AMDP-0624B-6R8M	6.8	57.0	70.0	4.0	6.0
AMDP-0624B-100M	10.0	92.0	101.0	3.1	4.0
AMDP-0624B-150M	15.0	145.0	160.0	2.5	3.3
AMDP-0624B-220M	22.0	220.0	230.0	2.0	2.5

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0630 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0630B-R10M	0.1	0.9	1.2	32.0	56.0
AMDP-0630B-R22M	0.22	2.5	3.0	24.0	34.0
AMDP-0630B-R24M	0.24	2.6	3.1	23.0	26.0
AMDP-0630B-R33M	0.33	3.0	3.5	21.0	25.0
AMDP-0630B-R47M	0.47	3.5	4.1	18.0	20.0
AMDP-0630B-R56M	0.56	3.9	4.5	16.5	18.0
AMDP-0630B-R68M	0.68	4.8	5.3	16.0	17.0
AMDP-0630B-R82M	0.82	5.4	6.0	14.0	16.0
AMDP-0630B-1R0M	1.0	6.7	7.4	12.0	15.0
AMDP-0630B-1R5M	1.5	10.6	12.1	12.0	14.0
AMDP-0630B-2R2M	2.2	13.5	15.0	9.5	10.0
AMDP-0630B-3R3M	3.3	18.0	22.0	8.5	9.5
AMDP-0630B-4R7M	4.7	28.0	33.0	6.0	6.5
AMDP-0630B-5R6M	5.6	37.0	42.0	5.0	6.0
AMDP-0630B-6R8M	6.8	42.5	48.0	5.0	6.0
AMDP-0630B-8R2M	8.2	54.0	60.0	5.0	6.0
AMDP-0630B-100M	10.0	62.0	67.0	4.5	5.5
AMDP-0630B-150M	15.0	104.0	115.0	3.0	4.5
AMDP-0630B-220M	22.0	180.0	200.0	2.3	3.0
AMDP-0630B-330M	33.0	280.0	310.0	2.0	2.5

0640 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-0640B-6R8M	6.8	39.0	45.0	5.5	6.5
AMDP-0640B-100M	10.0	60.0	65.0	5.0	5.0

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0650 Series

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (mΩ)	Saturation Current(A)	Heat Rating Current (A)
AMDP-0650B-R22M	0.22	100/1	4	35.0	20.0
AMDP-0650B-R47M	0.47	100/1	5	25.0	18.0
AMDP-0650B-R56M	0.56	100/1	6	23.0	17.0
AMDP-0650B-R68M	0.68	100/1	7	19.0	14.0
AMDP-0650B-R82M	0.82	100/1	8	18.0	13.5
AMDP-0650B-1R0M	1.0	100/1	9	17.0	13.0
AMDP-0650B-1R5M	1.5	100/1	10	12.0	11.5
AMDP-0650B-2R2M	2.2	100/1	13	11.0	8.00
AMDP-0650B-3R3M	3.3	100/1	20	9.00	7.00
AMDP-0650B-3R8M	3.8	100/1	25	8.00	6.50
AMDP-0650B-4R7M	4.7	100/1	27	7.00	6.00
AMDP-0650B-4R9M	4.9	100/1	28	6.50	5.70
AMDP-0650B-5R6M	5.6	100/1	30	6.00	5.30
AMDP-0650B-6R8M	6.8	100/1	38	5.80	5.00
AMDP-0650B-8R2M	8.2	100/1	40	5.50	4.00
AMDP-0650B-100M	10	100/1	60	5.30	3.50
AMDP-0650B-150M	15	100/1	86	5.00	3.00
AMDP-0650B-220M	22	100/1	95	4.00	2.40
AMDP-0650B-330M	33	100/1	237	3.00	2.00
AMDP-0650B-470M	47	100/1	280	2.00	1.60
AMDP-0650B-680M	68	100/1	310	1.80	1.30

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1030 Series

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (mΩ)	Saturation Current(A)	Heat Rating Current (A)
AMDP-1030B-1R0M	1.0	100/1	7	18.0	13.0
AMDP-1030B-1R5M	1.5	100/1	9	16.0	10.0
AMDP-1030B-2R2M	2.2	100/1	12	14.0	9.00
AMDP-1030B-4R7M	4.7	100/1	25	8.50	6.00
AMDP-1030B-8R2M	8.2	100/1	55	6.00	4.00
AMDP-1030B-100M	10	100/1	56	5.00	3.80
AMDP-1030B-150M	15	100/1	65	4.00	3.50

1040 Series

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (mΩ)	Saturation Current(A)	Heat Rating Current (A)
AMDP-1040B-R22M	0.22	100/1	1	60.0	30.0
AMDP-1040B-R33M	0.33	100/1	15	50.0	29.0
AMDP-1040B-R36M	0.36	100/1	16	45.0	28.0
AMDP-1040B-R47M	0.47	1001	18	38.0	26.0
AMDP-1040B-R56M	0.56	100/1	2	33.0	23.0
AMDP-1040B-R68M	0.68	100/1	3	32.0	22.0
AMDP-1040B-R82M	0.82	100/1	3.5	30.0	21.0
AMDP-1040B-1R0M	1.0	100/1	5	28.0	18.0
AMDP-1040B-1R5M	1.5	100/1	6	27.0	16.0
AMDP-1040B-2R2M	2.2	100/1	9	25.0	12.0
AMDP-1040B-3R3M	3.3	100/1	14	16.0	10.0
AMDP-1040B-3R9M	3.9	100/1	16	15.0	9.00
AMDP-1040B-4R7M	4.7	100/1	20	14.0	8.00
AMDP-1040B-5R6M	5.6	100/1	25	13.0	7.50
AMDP-1040B-6R8M	6.8	100/1	28	12.0	7.00
AMDP-1040B-8R2M	8.2	100/1	33	9.00	6.00
AMDP-1040B-100M	10	100/1	40	8.70	5.00
AMDP-1040B-120M	12	100/1	48	8.00	4.50
AMDP-1040B-150M	15	100/1	54	7.00	4.00
AMDP-1040B-220M	22	100/1	60	6.00	3.50
AMDP-1040B-330M	33	100/1	145	4.50	3.00
AMDP-1040B-470M	47	100/1	175	3.00	2.50
AMDP-1040B-680M	68	100/1	220	2.50	2.00
AMDP-1040B-101M	100	100/1	270	2.00	1.00

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1050 Series

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (mΩ)	Saturation Current(A)	Heat Rating Current (A)
AMDP-1050B-R82M	0.82	100/1	3	32.0	16.0
AMDP-1050B-1R0M	1.0	100/1	4	30.0	15.0
AMDP-1050B-2R2M	2.2	100/1	8	27.0	14.0
AMDP-1050B-3R3M	3.3	100/1	11	19.0	10.0
AMDP-1050B-4R7M	4.7	100/1	17	14.0	9.00
AMDP-1050B-6R8M	6.8	100/1	22	10.0	8.00
AMDP-1050B-100M	10	100/1	38	9.00	6.80
AMDP-1050B-150M	15	100/1	45	8.00	6.00
AMDP-1050B-220M	22	100/1	60	7.00	5.00
AMDP-1050B-330M	33	100/1	145	6.00	3.50

1335 Series

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (mΩ)	Saturation Current(A)	Heat Rating Current (A)
AMDP-1335B-R22M	0.22	100/1	2	65.0	25.0
AMDP-1335B-R47M	0.47	100/1	2.5	49.0	20.0
AMDP-1335B-R68M	0.68	100/1	3	35.0	18.0
AMDP-1335B-1R0M	1.0	100/1	4	26.0	15.0
AMDP-1335B-1R5M	1.5	100/1	5	24.0	14.5
AMDP-1335B-2R2M	2.2	100/1	8	20.0	14.0
AMDP-1335B-3R3M	3.3	100/1	12	16.0	12.0
AMDP-1335B-4R7M	4.7	100/1	15	14.0	10.0
AMDP-1335B-6R8M	6.8	100/1	25	12.0	8.00
AMDP-1335B-100M	10	100/1	35	10.0	6.00

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1350 Series

Part Number	L (uH)	Test Freq. (KHz/V)	DCR Max. (Ω)	Saturation Current(A)	Heat Rating Current (A)
AMDP-1350B-R33M	0.33	100/1	0.002	60.0	32.0
AMDP-1350B-R36M	0.36	100/1	0.002	50.0	28.0
AMDP-1350B-R47M	0.47	100/1	0.002	48.0	25.0
AMDP-1350B-R56M	0.56	100/1	0.002	46.0	23.0
AMDP-1350B-R68M	0.68	100/1	0.002	40.0	20.0
AMDP-1350B-R82M	0.82	100/1	0.003	39.0	19.0
AMDP-1350B-1R0M	1.0	100/1	0.004	35.0	18.0
AMDP-1350B-1R5M	1.5	100/1	0.005	33.0	17.5
AMDP-1350B-1R8M	1.8	100/1	0.005	30.0	17.0
AMDP-1350B-2R2M	2.2	100/1	0.005	25.0	16.0
AMDP-1350B-3R3M	3.3	100/1	0.013	23.0	15.0
AMDP-1350B-4R7M	4.7	100/1	0.015	21.0	12.0
AMDP-1350B-5R6M	5.6	100/1	0.017	20.0	11.5
AMDP-1350B-6R8M	6.8	100/1	0.019	18.0	11.0
AMDP-1350B-8R2M	8.2	100/1	0.023	17.0	10.0
AMDP-1350B-100M	10	100/1	0.026	13.0	6.00
AMDP-1350B-150M	15	100/1	0.060	12.0	5.50
AMDP-1350B-220M	22	100/1	0.075	8.00	4.00
AMDP-1350B-330M	33	100/1	0.082	6.00	3.00
AMDP-1350B-470M	47	100/1	0.090	3.50	2.50
AMDP-1350B-560M	56	100/1	0.180	3.30	2.00
AMDP-1350B-680M	68	100/1	0.210	3.00	1.50

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1360 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH) inductance@(0A)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-1360B-4R7M	4.7	8.5	9.0	15.0	24.0
AMDP-1360B-5R6M	5.6	9.5	11.0	13.0	22.5
AMDP-1360B-6R8M	6.8	11.5	13.5	12.0	19.0
AMDP-1360B-8R2M	8.2	13.6	16	11.0	13.5
AMDP-1360B-100M	10.0	18.0	20.7	10.0	12.5
AMDP-1360B-120M	12.0	20	23	9.0	10.0
AMDP-1360B-150M	15.0	25	29	8.5	9.0
AMDP-1360B-180M	18.0	30	35	7.5	8.0
AMDP-1360B-220M	22.0	34	39.5	7.0	7.5
AMDP-1360B-270M	27.0	49	56	6.0	6.5
AMDP-1360B-330M	33.0	65	75	5.5	6.0
AMDP-1360B-470M	47.0	80	90	5.0	5.5
AMDP-1360B-680M	68.0	120	140	4.0	4.5
AMDP-1360B-101M	100.0	180	200	3.0	3.5
AMDP-1360B-121M	120.0	210	235	2.0	3.2
AMDP-1360B-151M	150.0	300	350	1.5	2.7

1770 Series

Part No.	Inductance	DC Resistance		Heating Rating Current	Saturation Current
	L0 (μH) inductance@(0A)	DCR (mΩ)		Idc (A)	Isat (A)
	±20 %, 100 kHz, 1V	TYP.	MAX.	TYP.	TYP.
AMDP-1770B-1R0M	1.0	1.3	1.5	42.0	62.0
AMDP-1770B-2R2M	2.2	2.15	2.5	29.0	34.0
AMDP-1770B-3R3M	3.3	2.79	2.93	24.5	27.0
AMDP-1770B-4R7M	4.7	4.12	4.72	16.0	24.0
AMDP-1770B-6R8M	6.8	6.55	7.55	14.0	22.0
AMDP-1770B-8R2M	8.2	8.1	8.7	12.5	20.0
AMDP-1770B-100M	10.0	9.3	10.0	11.0	18.0
AMDP-1770B-150M	15.0	16.5	17.5	10.0	14.5
AMDP-1770B-200M	20.0	19.5	21.9	9.5	12.0
AMDP-1770B-220M	22.0	20.5	23.0	8.0	11.0
AMDP-1770B-330M	33.0	35.1	37.0	7.0	10.0
AMDP-1770B-470M	47.0	41.0	47.0	6.0	7.5
AMDP-1770B-680M	68.0	74.0	85.0	5.5	6.5
AMDP-1770B-101M	100.0	120.0	130.0	4.0	4.5

Notes

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 55 °C to + 125 °C
3. Idc(A):DC current (A) that will cause an approximate ΔT of 40 °C (reference ambient temperature is 25 °C)
4. Isat(A):DC current (A) that will cause L0 to drop approximately 30 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

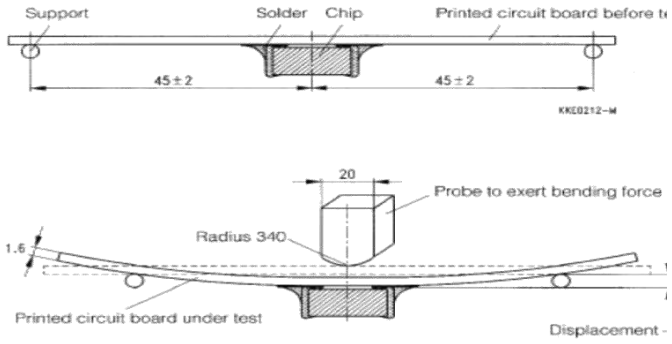
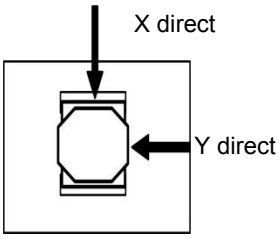
8. Reliability Test

<table>
<tr><th>Item</th><th>Specification and Requirement</th><th>Test Method</th></tr>
<tr><td>Solderability</td><td>1. No case deformation
or change in apperarance

2. New solder coverage
More than 90%</td><td>1.Preheat：155℃±5℃ ，60S±2S
2.Tin: lead-free.
3.Temperature:245℃±5℃，flux 3.0S±0.5S.</td></tr>
<tr><td>Mechanical shock</td><td>1. No case deformation
or change in apperarance

2. △L/Lo≦±10%</td><td>1. Acceleration： 100G
2. Pulse time:：6ms
3. 3 times in each positive and negative direction of 3 mutual perpendicular directions</td></tr>
<tr><td>Mechanical vibration</td><td>1. No case deformation
or change in apperarance

2. △L/Lo≦±10%</td><td>1. The test samples shall be soldered to the board. Then it shall be submitted to below test conditions.
<table>
<tr><td>Fre. Range</td><td>10~55Hz</td></tr>
<tr><td>Total Amplitude</td><td>1.5mm</td></tr>
<tr><td>Sweeping Method</td><td>10Hz to 55Hz to 10Hz</td></tr>
<tr><td>Time</td><td>For 2 hours on each X,Y,Z axis.</td></tr>
</table>
2. Recovery: At least 2 hours of recovery under the standard condition after the test, followed by the measurement within 24 ±2 hours.</td></tr>
<tr><td>Thermal Shock</td><td>Inductance change:
Within ± 10% Without distinct damage in appearance</td><td>1. First -55℃ for 30 minutes，last 125℃ for 30 minutes as 1 cycle. Go through 1000 cycles.
2. Max transfer time is 2 minutes.
3. Measured at room temperature after placing for 24±2 hours</td></tr>
<tr><td>Humidity Resistance</td><td>Inductance change:
Within ± 10% Without distinct damage in appearance</td><td>1.Reflow 2 times,
2.85℃,85%RH,1000 hours
3.Measured at room temperature after placing for 24±2 hours</td></tr>
<tr><td>Low temperature storage</td><td>Inductance change:
Within ± 10% Without distinct damage in appearance</td><td>1. Temperature：-55 ± 2℃
2. Time：1000 hours
3. Measured at room temperature after placing for 24±2 hours</td></tr>
</table>

High temperature storage	Inductance change: Within ± 10% Without distinct damage in appearance	1. Temperature：+125 ± 2℃ 2. Time：1000 hours 3. Measured at room temperature after placing for 24±2 hours
Board Flex	Inductance change: Within ± 10% Without distinct damage in appearance	1、Run through IR reflow for 2 times； 2、Place the 100mm X 40mm board into a fixture similar to the one shown in below Figure with the component facing down 3 、 The apparatus shall consist of mechanical means to apply a force which will bend the board (D) x = 2 mm minimum. 4、The duration of the applied forces shall be 60±5 sec. The force is to be applied only once to the board. 
Terminal Strength	No removal or split of the termination or other defects shall occur.	1、The test samples shall be soldered to the board 2、Push the product vertically from the side of the sample using the thrust tester. 3、Automotive electronics：17.7N，60S±1s，X，Ydirect. 

Recommended Soldering Technologies

(1) Re-flowing Profile

Preheat condition: 150 ~200℃/60~180sec.

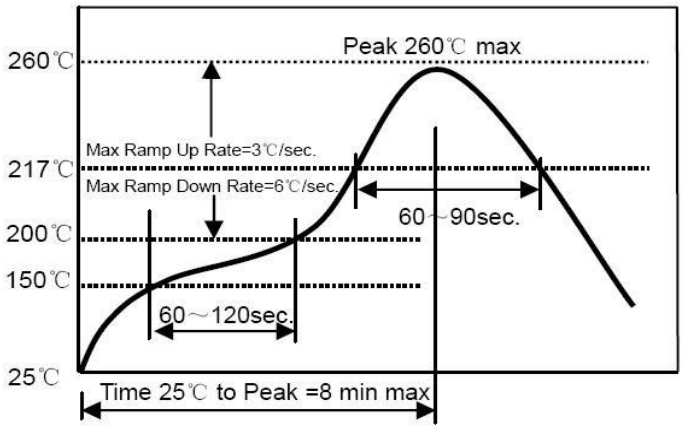
Allowed time above 217℃: 80~120sec.

Max temp: 260℃

Max time at max temp: 10 sec.

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2x max



(2) Iron Soldering Profile

Iron soldering power: Max. 30W

Pre-heating: 150℃/60sec.

Soldering time: 3sec. Max.

Solder paste: Sn/3.0Ag/0.5Cu

Max.1 times for iron soldering