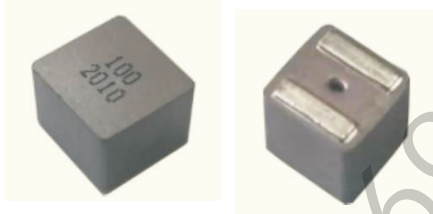


Molding Power Inductors AL Low RDC Series

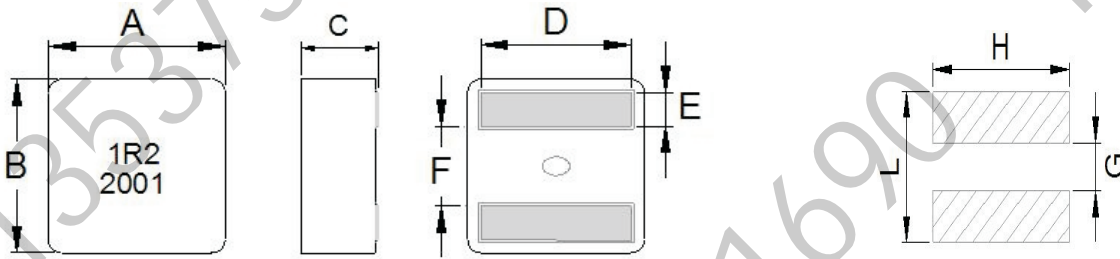
Product Identification:

$\frac{AL}{(1)}$ - $\frac{4020}{(2)}$ $\frac{A}{(3)}$ - $\frac{1R5}{(4)}$ $\frac{M}{(5)}$ - $\frac{D}{(6)}$



- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),N(±30%))
- (6) Code

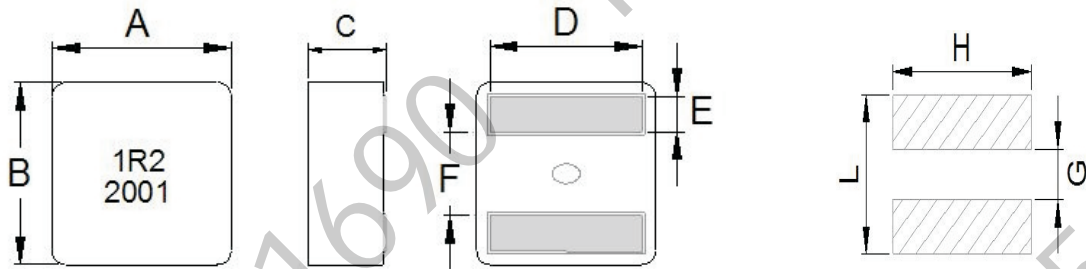
DIMENSIONS DRAWING:



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	L(mm)	G(mm)	H(mm)
AL-4020A**-D	4.4±0.2	4.4±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4 ref	1.4 ref	3.8 ref
AL-4020LR**-D	4.4±0.2	4.4±0.2	1.9±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4 ref	1.4 ref	3.8 ref
AL-4030A**-D	4.4±0.2	4.4±0.2	2.8±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4 ref	1.4 ref	3.8 ref
AL-4030LR**-D	4.4±0.2	4.4±0.2	2.8±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4 ref	1.4 ref	3.8 ref
AL-4040A**-D	4.4±0.2	4.4±0.2	3.8±0.2	3.4±0.3	0.88±0.2	1.6±0.25	3.4 ref	1.4 ref	3.8 ref
AL-5020A**-D	6.0±0.2	5.7±0.2	1.9±0.2	4.3±0.3	1.1±0.2	2.3±0.25	4.5 ref	2.0 ref	4.7 ref
AL-5030A**-D	6.0±0.2	5.7±0.2	2.9±0.2	4.3±0.3	1.1±0.2	2.3±0.25	4.5 ref	2.0 ref	4.7 ref
AL-5030LR**-D	6.0±0.2	5.7±0.2	2.9±0.2	4.5Typ	1.1±0.2	2.3±0.25	4.5 ref	2.0 ref	4.7 ref
AL-5050LR**-D	6.0±0.2	5.7±0.2	4.8±0.2	4.3±0.3	1.1±0.2	2.3±0.25	4.5 ref	2.0 ref	4.7 ref
AL-6030A**-D	7.2±0.2	6.9±0.2	SeeSpec table	SeeSpec table	1.4±0.2	2.6±0.25	5.6 ref	2.5 ref	5.6 ref
AL-6040A**-D	7.2±0.2	6.9±0.2	3.8±0.2	SeeSpec table	1.4±0.2	2.6±0.25	5.6 ref	2.5 ref	5.6 ref
AL-6050A**-D	7.2±0.2	6.9±0.2	4.8±0.2	SeeSpec table	1.4±0.2	2.6±0.25	5.6 ref	2.5 ref	5.6 ref

Molding Power Inductors AL Low RDC Series

DIMENSIONS DRAWING:



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	L(mm)	G(mm)	H(mm)
AL-6060A**-D	7.2±0.2	6.9±0.2	5.8±0.2	5.3±0.3	1.4±0.2	2.6±0.25	5.6 ref	2.5 ref	5.6 ref
AL-6060LR**-D	7.2±0.2	6.9±0.2	5.8±0.2	5.3±0.3	1.4±0.2	2.6±0.25	5.6 ref	2.5 ref	5.6 ref
AL-7020A**-D	8.4±0.3	8.0±0.3	1.85±0.2	SeeSpec table	1.75±0.2	3.15±0.25	7.4 ref	2.8 ref	7.2 ref
AL-7030A**-D	8.4±0.3	8.0±0.3	2.9±0.2	SeeSpec table	1.75±0.2	3.15±0.25	7.4 ref	2.8 ref	7.2 ref
AL-7050A**-D	8.4±0.3	8.0±0.3	4.8±0.2	SeeSpec table	1.75±0.2	3.15±0.25	7.4 ref	2.8 ref	7.2 ref
AL-7070A**-D	8.4±0.3	8.0±0.3	6.7±0.3	SeeSpec table	1.75±0.2	3.15±0.25	7.8 ref	2.8 ref	6.7 ref
AL-1006A**-D	11.9±0.3	11.0±0.3	5.7±0.3	SeeSpec table	2.4±0.2	4.5±0.3	10.5 ref	3.7 ref	11.0 ref
AL-1010A**-D	11.9±0.3	11.0±0.3	9.7±0.3	SeeSpec table	2.4±0.2	4.4±0.3	10.5 ref	3.7 ref	11.0 ref
AL-1031LR**-D	11.9±0.3	11.0±0.3	2.9±0.2	9.0±0.5	2.4±0.2	4.4±0.3	10.5 ref	3.7 ref	11.0 ref
AL-1508A**-D	17.5±0.3	16.5±0.3	7.7±0.3	13.2±0.5	3.2±0.2	7.0±0.3	15.0 ref	6.0 ref	15.0 ref
AL-1510A**-D	17.5±0.3	16.5±0.3	9.7±0.3	13.2±0.5	3.2±0.2	7.0±0.3	15.0 ref	6.0 ref	15.0 ref
AL-1513A**-D	17.5±0.3	16.5±0.3	12.7±0.3	13.2±0.5	3.2±0.2	7.0±0.3	15.0 ref	6.0 ref	15.0 ref

Molding Power Inductors AL- 4020A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
AL-4020A-R10M-D	0.1	2.20	2.42	33.00	18.00
AL-4020A-R22M-D	0.22	4.10	4.60	18.80	16.80
AL-4020A-R33M-D	0.33	5.00	5.50	16.50	15.50
AL-4020A-R36M-D	0.36	5.60	6.30	15.00	14.50
AL-4020A-R40M-D	0.4	6.90	7.73	13.50	14.00
AL-4020A-R47M-D	0.47	7.80	8.58	13.00	12.50
AL-4020A-R56M-D	0.56	8.40	9.30	12.60	12.00
AL-4020A-R60M-D	0.6	8.60	9.52	12.30	11.70
AL-4020A-R72M-D	0.72	10.40	11.60	10.60	10.50
AL-4020A-1R0M-D	1.0	13.30	14.60	8.80	9.60
AL-4020A-1R2M-D	1.2	16.20	17.90	7.80	9.00
AL-4020A-1R5M-D	1.5	21.00	23.50	7.40	7.60
AL-4020A-1R8M-D	1.8	25.00	28.00	7.00	7.00
AL-4020A-2R2M-D	2.2	35.20	38.70	6.00	5.60

Molding Power Inductors AL- 4020LR Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
AL-4020LR-R47M-D	0.47	6.00	6.80	12.50	13.20
AL-4020LR-R56M-D	0.56	6.90	7.80	11.30	12.60
AL-4020LR-R60M-D	0.6	6.90	7.80	11.10	12.40
AL-4020LR-R68M-D	0.68	7.30	8.20	10.00	12.00
AL-4020LR-R82M-D	0.82	8.60	9.50	9.00	11.50
AL-4020LR-1R0M-D	1.0	10.60	11.70	8.00	11.00
AL-4020LR-1R2M-D	1.2	12.20	13.40	7.50	9.50
AL-4020LR-1R5M-D	1.5	14.40	15.80	6.70	9.10
AL-4020LR-2R0M-D	2.0	21.15	23.30	5.00	8.20
AL-4020LR-2R2M-D	2.2	21.35	23.50	4.80	8.00
AL-4020LR-3R3M-D	3.3	34.20	38.30	4.40	5.50
AL-4020LR-4R7M-D	4.7	52.00	57.20	3.50	5.10

- (1).I sat Current: Temp.rise ΔL/LOA 30% Typ
- (2).I rms Current: Temp.rise 40°C Typ
- (3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 4030A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-4030A-R47M-D	0.47	6.6	7.26	15.0	14.0
AL-4030A-1R0M-D	1.0	11.6	12.76	9.0	10.0
AL-4030A-2R2M-D	2.2	18.9	20.80	6.2	7.2

Molding Power Inductors AL- 4030LR Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-4030LR-R90M-D	0.9	9.1	10.1	9.0	11.2
AL-4030LR-1R0M-D	1.0	9.1	10.1	9.2	11.0
AL-4030LR-1R2M-D	1.2	10.4	11.5	8.7	9.8
AL-4030LR-1R5M-D	1.5	12.0	13.2	7.0	9.0
AL-4030LR-2R2M-D	2.2	20.5	22.6	6.1	7.8
AL-4030LR-3R3M-D	3.3	26.0	28.6	5.3	6.6
AL-4030LR-4R7M-D	4.7	40.1	44.1	4.8	5.1
AL-4030LR-6R8M-D	6.8	67.4	74.1	4.2	4.0

Molding Power Inductors AL- 4040A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-4040A-R47M-D	0.47	5.2	5.72	12.50	15.0
AL-4040A-R68M-D	0.68	6.8	7.50	11.00	12.5
AL-4040A-1R0M-D	1.0	8.7	9.57	10.0	11.5
AL-4040A-1R5M-D	1.5	16.2	18.0	8.5	8.0
AL-4040A-1R8M-D	1.8	17.5	19.3	7.5	7.3
AL-4040A-2R0M-D	2	19.0	21.0	7.0	7.0
AL-4040A-2R2M-D	2.2	19.0	21.0	6.8	6.8
AL-4040A-3R3M-D	3.3	28.5	31.5	6.3	6.0

(1).I sat Current: Temp.rise $\Delta L/L0A$ 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 5020A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
AL-5020A-R15M-D	0.15	4.0	4.60	27.0	18.8
AL-5020A-R16M-D	0.16	4.0	4.60	27.0	18.8
AL-5020A-R33M-D	0.33	6.1	7.00	24.0	14.4
AL-5020A-R47M-D	0.47	7.0	8.05	20.0	14.1
AL-5020A-R56M-D	0.56	8.7	9.54	16.0	13.9
AL-5020A-R68M-D	0.68	8.9	10.20	14.0	13.4
AL-5020A-R80M-D	0.8	10.3	11.80	13.5	13.0
AL-5020A-R82M-D	0.82	11.0	12.70	13.0	12.0
AL-5020A-1R0M-D	1.0	12.0	13.80	12.8	10.5
AL-5020A-1R2M-D	1.2	14.2	16.30	12.2	9.4
AL-5020A-1R5M-D	1.5	16.2	18.70	11.7	8.8

Molding Power Inductors AL- 5030A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
AL-5030A-R15M-D	0.15	2.10	2.31	32.50	22.20
AL-5030A-R16M-D	0.16	2.12	2.33	32.00	22.20
AL-5030A-R28M-D	0.28	3.00	3.30	28.00	19.00
AL-5030A-R33M-D	0.33	3.20	3.52	26.00	19.20
AL-5030A-R47M-D	0.47	3.75	4.13	24.00	18.40
AL-5030A-R56M-D	0.56	4.05	4.52	20.20	17.70
AL-5030A-R60M-D	0.60	4.11	4.52	20.00	17.70
AL-5030A-R80M-D	0.80	5.14	5.65	18.00	13.10
AL-5030A-R82M-D	0.82	5.25	5.78	17.60	12.90
AL-5030A-1R0M-D	1.0	6.90	7.60	14.30	12.20
AL-5030A-1R2M-D	1.2	8.80	9.70	13.50	11.00
AL-5030A-1R5M-D	1.5	10.10	11.20	12.50	10.50
AL-5030A-1R8M-D	1.8	11.50	12.70	11.30	10.10
AL-5030A-2R2M-D	2.2	13.20	14.50	9.00	9.70
AL-5030A-3R3M-D	3.3	21.00	23.10	8.70	8.10
AL-5030A-3R6M-D	3.6	25.00	27.50	7.90	6.50
AL-5030A-4R7M-D	4.7	33.00	36.30	7.00	5.90

(1).I sat Current: Temp.rise ΔL/L0A 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 5030LR Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-5030LR-R27M-D	0.27	2.15	2.55	28.00	25.50
AL-5030LR-R56M-D	0.56	3.20	3.80	9.00	21.00
AL-5030LR-R60M-D	0.60	3.90	4.30	8.80	18.00
AL-5030LR-2R2M-D	2.20	10.50	12.00	4.30	11.50
AL-5030LR-5R6M-D	5.60	31.00	34.10	6.00	5.90

Molding Power Inductors AL- 5050LR Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-5050LR-5R6M-D	5.6	22.0	24.2	7.2	7.2
AL-5050LR-6R8M-D	6.8	26.0	28.6	6.6	6.4
AL-5050LR-8R2M-D	8.2	29.5	32.5	6.1	6.1
AL-5050LR-100M-D	10	39.0	43.0	5.4	5.0
AL-5050LR-150M-D	15	60.0	66.0	4.6	4.0
AL-5050LR-220M-D	22	90.6	99.7	4.1	3.4

Molding Power Inductors AL- 6030A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ± 0.3
AL-6030A-R18M-D	0.18	1.60	1.75	36.0	32.0	5.30
AL-6030A-R33M-D	0.33	2.25	2.50	28.0	25.0	5.55
AL-6030A-R56M-D	0.56	3.00	3.31	25.0	22.0	5.30
AL-6030A-R68M-D	0.68	4.70	5.17	21.0	20.0	5.30
AL-6030A-1R0M-D	1.0	5.50	6.05	18.0	18.0	5.20
AL-6030A-1R2M-D	1.2	6.70	7.40	16.0	16.0	5.15
AL-6030A-1R5M-D	1.5	8.30	9.13	15.5	15.0	5.15
AL-6030A-1R8M-D	1.8	9.20	10.20	13.0	14.0	5.10
AL-6030A-2R2M-D	2.2	11.00	12.20	11.0	10.0	5.05
AL-6030A-3R3M-D	3.3	18.80	20.80	9.0	8.0	5.00
AL-6030A-4R5M-D	4.5	23.00	25.30	8.0	7.0	5.00
AL-6030A-4R7M-D	4.7	26.50	29.20	7.0	6.0	5.00

(1).I sat Current: Temp.rise $\Delta L/L0A$ 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 6040A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.3
AL-6040A-R47M-D	0.47	2.60	2.86	27.0	24.0	5.5
AL-6040A-R68M-D	0.68	3.60	3.96	22.0	20.5	5.5
AL-6040A-1R0M-D	1.0	4.90	5.39	18.0	19.0	5.2
AL-6040A-1R5M-D	1.5	6.40	7.04	13.0	16.0	5.2
AL-6040A-2R2M-D	2.2	10.60	11.70	11.5	11.0	5.0
AL-6040A-3R3M-D	3.3	14.10	15.50	9.60	9.20	5.0
AL-6040A-4R7M-D	4.7	21.00	23.10	8.00	7.80	5.0
AL-6040A-5R6M-D	5.6	25.50	28.10	7.80	6.70	5.0

Molding Power Inductors AL- 6050A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.3
AL-6050A-R82M-D	0.82	3.80	4.18	20.0	21.0	5.3
AL-6050A-1R0M-D	1.0	4.10	4.52	18.0	20.0	5.3
AL-6050A-1R2M-D	1.2	5.30	5.83	16.0	18.0	5.3
AL-6050A-1R5M-D	1.5	5.70	6.30	14.5	17.0	5.3
AL-6050A-1R8M-D	1.8	6.40	7.10	13.5	16.0	5.3
AL-6050A-2R2M-D	2.2	7.70	8.50	12.0	13.0	5.2
AL-6050A-3R3M-D	3.3	11.20	12.50	10.0	11.0	5.2
AL-6050A-4R3M-D	4.3	15.10	16.20	8.5	9.0	5.2
AL-6050A-4R7M-D	4.7	16.70	18.40	8.4	8.5	5.2
AL-6050A-5R6M-D	5.6	20.00	22.00	8.3	7.0	5.2
AL-6050A-6R8M-D	6.8	23.10	25.40	7.0	6.6	5.2
AL-6050A-8R2M-D	8.2	28.60	31.50	6.8	6.2	5.2

Molding Power Inductors AL- 6060A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
AL-6060A-1R0M-D	1.0	4.0	4.4	19.0	21.0
AL-6060A-1R5M-D	1.5	5.5	6.1	15.0	17.5
AL-6060A-2R2M-D	2.2	7.3	8.1	12.5	14.0
AL-6060A-3R3M-D	3.3	11.1	12.3	11.0	12.0
AL-6060A-4R7M-D	4.7	15.1	16.2	9.5	11.0
AL-6060A-5R6M-D	5.6	18.2	20.0	9.1	10.0
AL-6060A-6R8M-D	6.8	21.0	23.2	8.7	9.0
AL-6060A-8R2M-D	8.2	26.2	28.9	7.5	7.0
AL-6060A-100M-D	10.0	33.0	36.3	6.3	5.8

- (1).I sat Current: Temp.rise ΔL/L0A 30% Typ
- (2).I rms Current: Temp.rise 40°C Typ
- (3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 6060LR Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.
AL-6060LR-1R0M-D	1.0	3.90	4.29	16.0	19.0
AL-6060LR-1R5M-D	1.5	5.10	5.61	14.0	16.0
AL-6060LR-2R2M-D	2.2	7.00	7.80	12.0	14.0
AL-6060LR-3R3M-D	3.3	11.00	12.10	10.5	12.0
AL-6060LR-4R7M-D	4.7	13.10	14.40	9.5	11.0
AL-6060LR-5R6M-D	5.6	14.30	15.80	9.0	10.0
AL-6060LR-6R8M-D	6.8	18.90	20.80	8.7	9.0
AL-6060LR-8R2M-D	8.2	22.50	24.80	8.0	8.0
AL-6060LR-100M-D	10	26.60	29.30	6.8	7.0
AL-6060LR-150M-D	15	39.00	43.00	5.2	6.0
AL-6060LR-220M-D	22	55.00	60.50	5.0	5.0

Molding Power Inductors AL- 7020A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.3
AL-7020A-R15M-D	0.15	1.9	2.5	46.0	24.0	6.6
AL-7020A-R27M-D	0.27	2.9	3.5	32.0	21.0	6.6
AL-7020A-R31M-D	0.31	4.0	4.8	31.0	20.0	6.2
AL-7020A-R33M-D	0.33	4.0	4.8	31.0	19.0	6.2
AL-7020A-R47M-D	0.47	5.1	6.2	25.0	17.0	6.2
AL-7020A-R68M-D	0.68	7.9	9.2	23.0	13.0	6.2
AL-7020A-1R0M-D	1.0	9.8	10.8	20.0	11.0	6.2
AL-7020A-1R2M-D	1.2	11.5	12.8	19.0	10.0	6.2
AL-7020A-1R5M-D	1.5	16.0	17.6	17.0	9.0	6.2
AL-7020A-1R8M-D	1.8	18.0	19.8	15.0	8.0	6.2

(1).I sat Current: Temp.rise ΔL/L0A 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 7030A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.3
AL-7030A-R33M-D	0.33	2.00	2.20	40.0	25.0	6.6
AL-7030A-R36M-D	0.36	2.10	2.31	37.0	24.0	6.6
AL-7030A-R60M-D	0.6	2.90	3.20	32.0	23.0	6.6
AL-7030A-1R0M-D	1.0	4.55	5.00	28.0	21.8	6.6
AL-7030A-1R5M-D	1.5	7.50	8.25	23.5	15.3	6.6
AL-7030A-2R2M-D	2.2	12.40	13.70	17.0	13.0	6.2
AL-7030A-2R7M-D	2.7	14.00	15.40	13.5	11.4	6.2
AL-7030A-3R3M-D	3.3	16.30	18.00	13.0	10.0	6.2
AL-7030A-4R7M-D	4.7	24.20	26.70	12.2	9.0	6.2
AL-7030A-5R6M-D	5.6	30.10	33.20	11.5	7.3	6.2
AL-7030A-6R8M-D	6.8	38.60	42.50	11.0	6.8	6.2
AL-7030A-8R2M-D	8.2	44.30	48.73	9.0	5.9	6.2
AL-7030A-100M-D	10	51.00	56.10	7.0	5.0	6.2

Molding Power Inductors AL- 7050A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.3
AL-7050A-R16M-D	0.16	0.90	0.99	68.0	34.0	6.7
AL-7050A-R18M-D	0.18	0.90	0.99	65.0	33.5	6.7
AL-7050A-R36M-D	0.36	1.32	1.46	48.0	29.0	6.7
AL-7050A-R56M-D	0.56	1.80	1.98	40.0	26.0	6.7
AL-7050A-R68M-D	0.68	2.21	2.43	32.0	22.0	6.5
AL-7050A-1R0M-D	1.0	2.90	3.19	29.0	23.0	6.5
AL-7050A-1R2M-D	1.2	3.50	3.85	27.0	19.0	6.5
AL-7050A-1R8M-D	1.8	4.20	4.62	21.0	16.0	6.5
AL-7050A-2R2M-D	2.2	5.80	6.40	17.0	14.0	6.2
AL-7050A-3R3M-D	3.3	10.40	11.44	14.0	13.0	6.2
AL-7050A-4R7M-D	4.7	14.00	15.40	13.0	11.0	6.2
AL-7050A-5R6M-D	5.6	15.60	17.20	11.0	10.0	6.2

(1).I sat Current: Temp.rise ΔL/L0A 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 7070A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.3
AL-7070A-2R2M-D	2.2	5.73	6.33	17.6	17.8	6.7
AL-7070A-3R3M-D	3.3	8.56	9.42	15.1	15.1	6.7
AL-7070A-4R7M-D	4.7	12.20	13.50	14.0	13.6	6.7
AL-7070A-6R8M-D	6.8	17.80	19.60	11.0	9.5	6.5
AL-7070A-100M-D	10	24.00	26.40	9.0	7.0	6.5

Molding Power Inductors AL- 8080A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.5
AL-1006A-R68M-D	0.68	1.25	1.5	50	34	9.5
AL-1006A-1R0M-D	1.0	2	2.32	44	28.5	9
AL-1006A-1R2M-D	1.2	2.4	2.64	40	26.5	9
AL-1006A-1R5M-D	1.5	2.9	3.3	36	24.5	9
AL-1006A-2R2M-D	2.2	4.4	4.84	30	20	9
AL-1006A-3R3M-D	3.3	7	7.7	25	16.8	9
AL-1006A-4R7M-D	4.7	9.7	10.72	22	14	9
AL-1006A-5R6M-D	5.6	10.8	11.9	17	12	8.8
AL-1006A-6R8M-D	6.8	11.8	13	15.5	10.5	8.8
AL-1006A-8R2M-D	8.2	15	16.5	14	9.5	8.8
AL-1006A-100M-D	10	16.5	18.2	13	9	8.8

Molding Power Inductors AL- 1010A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/0.1V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	D(mm) ±0.5
AL-1010A-2R2M-D	2.2	2.5	2.80	29.0	32.0	9.3
AL-1010A-3R3M-D	3.3	3.7	4.10	23.4	25.0	9.3
AL-1010A-4R7M-D	4.7	5.2	5.70	21.4	24.0	9.3
AL-1010A-5R6M-D	5.6	6.5	7.20	19.6	21.2	9.3
AL-1010A-6R8M-D	6.8	8.1	8.90	18.5	18.5	9.0
AL-1010A-8R2M-D	8.2	10.8	12.40	16.3	17.1	9.0
AL-1010A-100M-D	10.0	12.5	13.75	14.6	15.5	9.0
AL-1010A-150M-D	15.0	17.5	19.30	12.5	13.8	9.0

(1).I sat Current: Temp.rise ΔL/L0A 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 1031LR Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-1031LR-R28M-D	0.28	1.45	1.60	58.0	35.0
AL-1031LR-R56M-D	0.56	2.50	2.75	39.0	32.0
AL-1031LR-R82M-D	0.82	3.70	4.10	32.0	25.0
AL-1031LR-R90M-D	0.9	3.80	4.20	31.0	24.0
AL-1031LR-1R0M-D	1.0	4.50	4.95	30.0	23.0
AL-1031LR-1R5M-D	1.5	6.00	6.60	25.0	18.0

Molding Power Inductors AL- 1508A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-1508A-R40M-D	0.4	0.55	0.66	101.0	60.0
AL-1508A-R74M-D	0.74	0.79	0.90	80.0	60.0
AL-1508A-1R0M-D	1.0	1.00	1.15	73.0	58.0
AL-1508A-1R1M-D	1.1	1.00	1.15	73.0	58.0
AL-1508A-1R3M-D	1.3	1.25	1.44	63.0	47.0
AL-1508A-1R8M-D	1.8	1.60	1.84	57.0	44.0
AL-1508A-2R0M-D	2.0	1.92	2.21	52.0	40.0
AL-1508A-2R2M-D	2.2	2.15	2.48	49.0	37.0
AL-1508A-3R0M-D	3.0	2.50	3.00	41.0	34.5
AL-1508A-4R2M-D	4.2	3.90	4.68	33.0	27.0
AL-1508A-4R7M-D	4.7	4.30	5.16	32.0	26.5
AL-1508A-5R3M-D	5.3	4.45	5.34	31.0	26.0
AL-1508A-6R2M-D	6.2	5.40	6.50	31.0	23.0
AL-1508A-7R2M-D	7.2	6.00	7.20	29.0	21.0
AL-1508A-8R2M-D	8.2	6.60	7.92	25.0	19.0
AL-1508A-100M-D	10	8.00	9.60	21.0	16.0
AL-1508A-150M-D	15	12.50	15.00	18.0	13.0
AL-1508A-220M-D	22	19.30	23.20	16.0	12.0

(1).I sat Current: Temp.rise $\Delta L/L0A$ 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C

Molding Power Inductors AL- 1510A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-1510A-4R7M-D	4.7	3.40	3.8	39.0	30.0
AL-1510A-5R6M-D	5.6	3.82	4.2	34.0	28.0
AL-1510A-6R8M-D	6.8	4.18	4.6	31.0	26.0
AL-1510A-8R2M-D	8.2	6.00	7.2	28.0	25.0
AL-1510A-100M-D	10	7.10	8.6	26.0	24.0
AL-1510A-150M-D	15	9.20	11.5	20.0	18.0
AL-1510A-220M-D	22	13.20	15.8	18.0	16.0
AL-1510A-330M-D	33	18.70	20.0	16.7	13.0

Molding Power Inductors AL- 1513A Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/0.1V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Max.	I rms (A)Max.
AL-1513A-4R7M-D	4.7	3.00	3.30	40.0	31.0
AL-1513A-5R6M-D	5.6	3.50	3.90	35.0	29.0
AL-1513A-6R8M-D	6.8	3.80	4.20	32.0	27.0
AL-1513A-8R2M-D	8.2	5.10	5.74	29.0	26.0
AL-1513A-100M-D	10	6.30	7.00	27.0	25.0
AL-1513A-150M-D	15	6.80	7.50	21.0	22.0
AL-1513A-220M-D	22	12.60	13.86	19.0	17.0
AL-1513A-330M-D	33	18.50	22.20	16.0	14.0

(1).I sat Current: Temp.rise $\Delta L/L0A$ 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

(3).Operating Temperature: -40°C up to +125°C