

Molding Power Inductors MDC Series

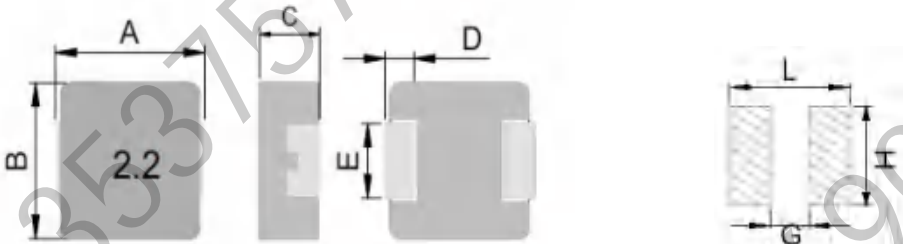
Product Identification:

MDC - 3012 H - 1R0 M
 (1) (2) (3) (4) (5)

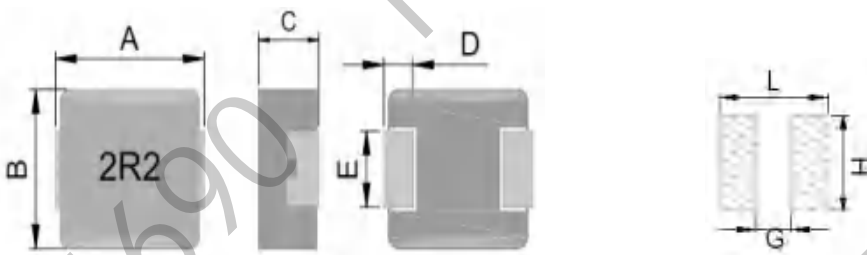


- (1) Series
- (2) Dimensions(L*H*W)
- (3) Type
- (4) Inductance (1R0=1.0uH, 100=10uH, 101=100uH)
- (5) Tolerance(K(±10%), L(±15%), M(±20%),N(±30%))

DIMENSIONS DRAWING:



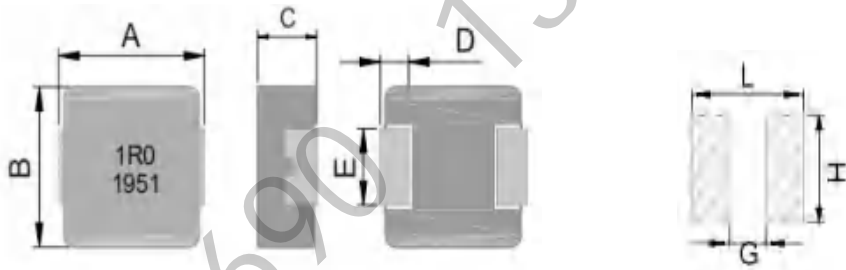
Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-3012H	3.5±0.2	3.2±0.2	1.0±0.2	0.7±0.2	1.2±0.2	-	4.1Ref	1.9Ref	1.45Ref
MDC-3015H	3.5±0.3	3.2±0.2	1.3±0.2	0.7±0.2	1.2±0.2	-	4.1Ref	1.9Ref	1.45Ref
MDC-3018H	3.5±0.3	3.2±0.2	1.6±0.2	0.7±0.2	1.2±0.2	-	4.1Ref	1.9Ref	1.45Ref
MDC-3020H	3.5±0.2	3.2±0.2	1.8±0.2	0.7±0.2	1.2±0.2	-	4.1Ref	1.9Ref	1.45Ref



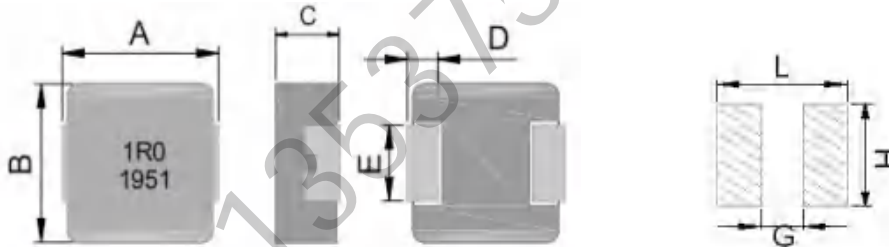
Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-4012HP	4.45±0.25	4.06±0.25	1.0±0.2	0.76±0.30	2.0±0.20	-	5.2Ref	2.2Ref	2.3Ref
MDC-4015HP	4.45±0.25	4.06±0.25	1.3±0.2	0.76±0.30	2.0±0.20	-	5.2Ref	2.2Ref	2.3Ref
MDC-4018HP	4.45±0.25	4.06±0.25	1.6±0.2	0.76±0.30	2.0±0.20	-	5.2Ref	2.2Ref	2.3Ref
MDC-4020HP	4.45±0.25	4.06±0.25	1.8±0.2	0.76±0.30	2.0±0.20	-	5.2Ref	2.2Ref	2.3Ref
MDC-4030HP	4.45±0.25	4.06±0.25	2.8±0.2	0.76±0.30	2.0±0.20	-	5.2Ref	2.2Ref	2.4Ref

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DIMENSIONS DRAWING:



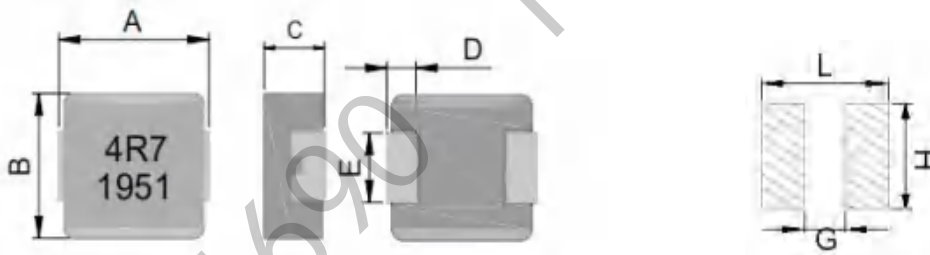
Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-5012HP	5.70±0.3	5.20±0.2	1.00±0.2	1.10±0.3	2.50±0.3	-	6.2Ref	2.2Ref	2.8Ref
MDC-5015HP	5.70±0.3	5.20±0.2	1.30±0.2	1.10±0.3	2.50±0.3	-	6.2Ref	2.2Ref	2.8Ref
MDC-5018HP	5.70±0.3	5.20±0.2	1.60±0.2	1.10±0.3	2.50±0.3	-	6.2Ref	2.2Ref	2.8Ref
MDC-5020HP	5.70±0.3	5.20±0.2	1.80±0.2	1.10±0.3	2.50±0.3	-	6.2Ref	2.2Ref	2.8Ref
MDC-5030H	5.70±0.3	5.20±0.2	2.80±0.2	1.10±0.3	1.50±0.2	-	6.5Ref	2.5Ref	1.8Ref
MDC-5030HP	5.70±0.3	5.20±0.2	2.80±0.2	1.10±0.3	2.50±0.3	-	6.5Ref	2.5Ref	2.8Ref
MDC-5030T	4.90±0.3	4.70±0.2	2.80±0.2	1.00±0.3	1.50±0.3	-	7.0Ref	3.0Ref	2.5Ref



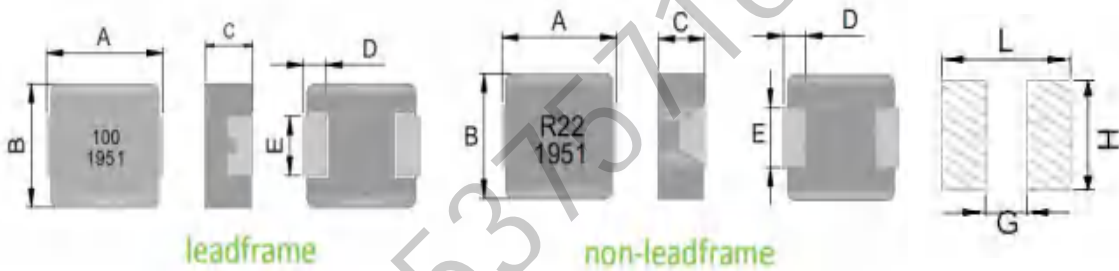
Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-6012H	7.00±0.3	6.60±0.3	1.00±0.2	1.80±0.3	2.50±0.3	-	7.7Ref	2.5Ref	3.0Ref
MDC-6015H	7.00±0.3	6.60±0.3	1.30±0.2	1.80±0.3	3.00±0.3	-	7.7Ref	2.5Ref	3.5Ref
MDC-6018H	7.00±0.3	6.60±0.3	1.60±0.2	1.80±0.3	3.00±0.3	-	7.7Ref	2.5Ref	3.5Ref
MDC-6020H	7.00±0.3	6.60±0.3	1.80±0.2	1.80±0.3	3.00±0.3	-	7.7Ref	2.5Ref	3.5Ref
MDC-6024H	7.30±0.3	6.60±0.3	2.20±0.2	1.80±0.3	3.00±0.3	-	7.7Ref	2.5Ref	3.5Ref
MDC-6030H	7.30±0.3	6.60±0.3	2.80±0.2	1.80±0.3	3.00±0.3	-	8.4Ref	2.5Ref	3.5Ref
MDC-6040H	7.30±0.3	6.60±0.3	3.80±0.2	1.80±0.3	3.00±0.3	-	8.4Ref	2.5Ref	3.5Ref
MDC-6050H	7.30±0.3	6.60±0.3	4.80±0.2	1.80±0.3	3.00±0.3	-	8.4Ref	2.5Ref	3.5Ref

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DIMENSIONS DRAWING:



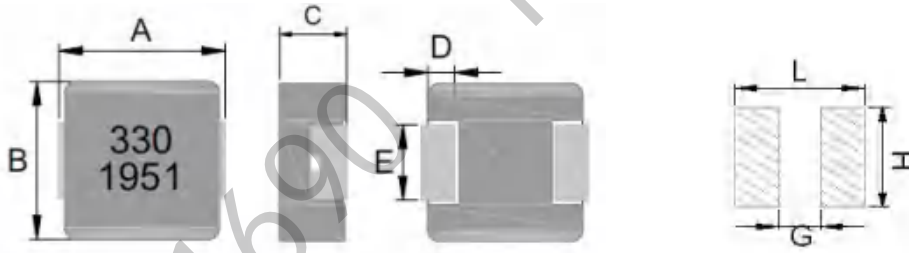
Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-8030HP	8.8±0.4	8.3±0.3	2.8±0.2	1.4±0.3	5.0±0.3	-	10.4Ref	4.5Ref	5.2Ref
MDC-8040HP	8.8±0.4	8.3±0.3	3.8±0.2	1.4±0.3	5.0±0.3	-	10.4Ref	4.5Ref	5.2Ref



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-1002H	11.0±0.5	10.0±0.3	1.8±0.2	2.3±0.3	3.0±0.3	-	12.5Ref	5.4Ref	3.5Ref
MDC-1003H	11.0±0.5	10.0±0.3	2.8±0.2	2.3±0.3	3.0±0.3	-	13.6Ref	5.4Ref	3.5Ref
MDC-1004H	11.0±0.5	10.0±0.3	3.8±0.2	2.3±0.3	SeeSpec table	-	13.6Ref	5.4Ref	3.5Ref
MDC-1005H	11.0±0.5	10.0±0.3	4.8±0.2	2.3±0.3	3.0±0.3	-	13.6Ref	5.4Ref	3.5Ref
MDC-1203HP	13.5±0.5	12.5±0.3	2.8±0.2	2.3±0.3	4.7±0.3	-	14.5Ref	8.0Ref	5.0Ref
MDC-1235HP	13.5±0.5	12.5±0.3	3.3±0.2	2.3±0.3	4.7±0.3	-	14.2Ref	8.0Ref	5.0Ref
MDC-1205HP	13.5±0.5	12.5±0.3	4.8±0.2	2.3±0.3	4.7±0.3	-	14.2Ref	8.0Ref	5.0Ref
MDC-1206HP	13.5±0.5	12.5±0.3	5.7±0.3	2.3±0.3	4.7±0.3	-	14.2Ref	8.0Ref	5.0Ref
MDC-1265HP	13.5±0.5	12.5±0.3	6.2±0.3	2.3±0.3	4.7±0.3	-	14.2Ref	8.0Ref	5.0Ref

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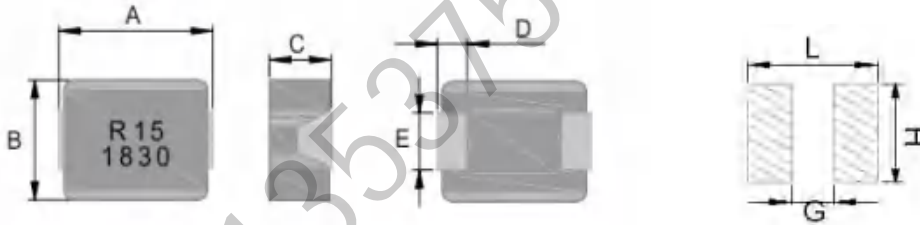
DIMENSIONS DRAWING:



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-1707HP	17.6±0.4	16.9±0.3	6.7±0.3	2.1±0.3	11.9±0.3		18.5Ref	12.2Ref	12.5Ref
MDC-2313HP	23.8±0.5	22.0±0.3	12.6±0.4	5.0±0.4	19.0±0.3		24.0Ref	12.5Ref	19.5Ref

Molding Power Inductors MDC Series

DIMENSIONS DRAWING:



Shape and Dimensions							Recommended Pattern		
TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	-	L(mm)	G(mm)	H(mm)
MDC-110704H	11.0±0.3	7.1±0.3	3.8±0.2	2.1±0.3	2.8±0.3		12.0Ref	5.4Ref	3.4Ref
MDC-110705H	11.0±0.3	7.1±0.3	4.8±0.2	2.1±0.3	2.8±0.3		12.0Ref	5.4Ref	3.4Ref
MDC-120804H	13.0±0.5	8.0±0.3	3.8±0.2	2.3±0.3	2.8±0.3		14.5Ref	6.0Ref	4.0Ref

Molding Power Inductors MDC - 3012H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-3012H-R15Y	0.15±30%	9.6	11.0	14.00	10.00
MDC-3012H-R22M	0.22	14.0	17.0	10.00	6.50
MDC-3012H-R33M	0.33	16.0	20.0	9.20	6.20
MDC-3012H-R36M	0.36	18.5	23.0	8.50	6.00
MDC-3012H-R47M	0.47	25.0	30.0	7.20	5.00
MDC-3012H-R56M	0.56	31.0	36.0	6.60	4.50
MDC-3012H-R68M	0.68	34.0	40.0	6.10	4.00
MDC-3012H-R82M	0.82	41.0	48.0	5.80	3.50
MDC-3012H-1R0M	1.0	50.0	60.0	5.50	3.30
MDC-3012H-1R5M	1.5	71.0	85.0	4.00	3.00
MDC-3012H-2R2M	2.2	98.0	115.0	3.40	2.70
MDC-3012H-3R3M	3.3	191.0	210.0	3.10	2.00
MDC-3012H-4R7M	4.7	266.0	293.0	2.80	1.60
MDC-3012H-5R6M	5.6	310.0	360.0	2.20	1.50
MDC-3012H-6R8M	6.8	360.0	400.0	2.00	1.40
MDC-3012H-8R2M	8.2	420.0	463.0	1.70	1.20
MDC-3012H-100M	10	498.0	550.0	1.40	1.00

Molding Power Inductors MDC - 3015H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-3015H-R22M	0.22	14.0	17.0	10.80	7.00
MDC-3015H-R47M	0.47	23.3	28.0	8.00	5.50
MDC-3015H-R56M	0.56	28.0	33.0	7.20	5.00
MDC-3015H-R68M	0.68	34.0	42.0	6.50	4.50
MDC-3015H-1R0M	1.0	41.0	50.0	5.80	3.60
MDC-3015H-1R5M	1.5	64.0	77.0	4.00	3.40
MDC-3015H-2R2M	2.2	82.0	98.0	3.80	3.20
MDC-3015H-3R3M	3.3	170.0	205.0	3.20	2.50
MDC-3015H-4R7M	4.7	220.0	264.0	2.80	1.90
MDC-3015H-5R6M	5.6	265.0	318.0	2.30	1.70
MDC-3015H-6R8M	6.8	290.0	348.0	2.00	1.50
MDC-3015H-8R2M	8.2	390.0	468.0	1.80	1.30
MDC-3015H-100M	10	435.0	522.0	1.60	1.20

(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 MDC - 3018H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-3018H-R47M	0.47	21.5	25.0	8.5	6.0
MDC-3018H-R56M	0.56	21.0	26.0	8.0	5.0
MDC-3018H-R68M	0.68	29.0	33.5	6.5	5.0
MDC-3018H-1R0M	1.0	38.0	44.0	5.0	3.8
MDC-3018H-1R5M	1.5	56.0	65.0	4.0	3.5
MDC-3018H-2R2M	2.2	73.0	85.0	3.7	3.3
MDC-3018H-3R3M	3.3	136.0	158.0	3.3	2.7
MDC-3018H-4R0M	4.0	170.0	195.0	3.1	2.5
MDC-3018H-4R7M	4.7	180.0	208.0	2.9	2.3
MDC-3018H-5R6M	5.6	238.0	275.0	2.3	1.9
MDC-3018H-6R8M	6.8	275.0	320.0	2.1	1.5
MDC-3018H-8R2M	8.2	350.0	405.0	1.9	1.4
MDC-3018H-100M	10	375.0	450.0	1.6	1.3
MDC-3018H-150M	15	520.0	600.0	1.5	1.2

Molding Power Inductors MDC - 3020H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-3020H-R10Y	0.10 $\pm 30\%$	6.6	9.0	14.0	10.5
MDC-3020H-R22Y	0.22 $\pm 30\%$	11.0	14.0	11.2	9.0
MDC-3020H-R33M	0.33	17.0	21.0	10.0	8.0
MDC-3020H-R47M	0.47	19.7	23.0	9.0	7.0
MDC-3020H-R60M	0.6	24.0	28.0	7.5	6.0
MDC-3020H-R68M	0.68	25.5	29.0	7.0	5.5
MDC-3020H-R82M	0.82	27.0	32.0	6.0	4.8
MDC-3020H-1R0M	1.0	32.0	38.0	5.0	4.0
MDC-3020H-1R2M	1.2	39.0	47.0	4.5	3.9
MDC-3020H-1R5M	1.5	42.0	50.0	4.0	3.8
MDC-3020H-2R2M	2.2	65.0	75.0	3.7	3.5
MDC-3020H-3R3M	3.3	125	145	3.5	3.0
MDC-3020H-4R7M	4.7	172	200	3.0	2.6
MDC-3020H-5R6M	5.6	205	238	2.6	2.2
MDC-3020H-6R8M	6.8	260	300	2.2	1.9
MDC-3020H-8R2M	8.2	340	390	1.9	1.6
MDC-3020H-100M	10	366	422	1.6	1.4

(1).I sat Current: Temp.rise $\Delta L/L_{0A}$ 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

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

Molding Power Inductors MDC - 4012HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-4012HP-33NY	0.033 $\pm 30\%$	2.00	2.40	40.00	19.00
MDC-4012HP-47NY	0.047 $\pm 30\%$	2.60	3.00	36.00	18.00
MDC-4012HP-R10Y	0.10 $\pm 30\%$	4.30	5.50	25.00	11.50
MDC-4012HP-R12Y	0.12 $\pm 30\%$	4.80	6.20	23.00	10.50
MDC-4012HP-R15Y	0.15 $\pm 30\%$	5.50	6.80	21.50	10.00
MDC-4012HP-R22M	0.22	6.60	8.00	20.00	8.50
MDC-4012HP-R25M	0.25	8.00	10.00	16.00	8.20
MDC-4012HP-R33M	0.33	13.60	16.00	11.00	7.00
MDC-4012HP-R36M	0.36	15.50	18.00	8.50	6.50
MDC-4012HP-R47M	0.47	18.00	20.00	6.50	6.00
MDC-4012HP-R60M	0.6	22.50	26.00	6.00	5.30
MDC-4012HP-R68M	0.68	32.00	37.00	6.00	5.00
MDC-4012HP-R82M	0.82	38.00	44.00	6.00	4.50

Molding Power Inductors MDC - 4012HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-4012HP-1R0M	1.0	41.00	47.00	6.00	4.00
MDC-4012HP-1R2M	1.2	48.00	56.00	5.00	3.50
MDC-4012HP-1R5M	1.5	55.00	63.30	4.00	3.00
MDC-4012HP-2R2M	2.2	69.20	80.00	3.50	2.80
MDC-4012HP-3R3M	3.3	84.00	97.00	3.00	2.30
MDC-4012HP-4R7M	4.7	128.0	145.0	2.50	2.00
MDC-4012HP-5R6M	5.6	180.0	208.0	2.30	1.70
MDC-4012HP-6R8M	6.8	300.0	360.0	1.70	1.50
MDC-4012HP-8R2M	8.2	313.0	376.0	1.60	1.40
MDC-4012HP-100M	10	410.0	463.0	1.40	1.30
MDC-4012HP-150M	15	550.0	610.0	1.20	1.05
MDC-4012HP-180M	18	860.0	960.0	1.10	0.90
MDC-4012HP-220M	22	950.0	1050.0	1.00	0.80

- (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 MDC - 4015HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-4015HP-47NM	0.047±30%	2.1	2.5	48.0	20.5
MDC-4015HP-R10Y	0.10±30%	3.2	4.0	32.0	16.0
MDC-4015HP-R12Y	0.12±30%	4.0	5.0	20.0	15.0
MDC-4015HP-R22M	0.22	6.5	7.8	20.0	10.0
MDC-4015HP-R47M	0.47	15.0	19.0	11.0	8.0
MDC-4015HP-R68M	0.68	19.0	21.5	8.5	6.5
MDC-4015HP-R82M	0.82	29.0	36.0	7.5	5.5
MDC-4015HP-1R0M	1.0	34.0	40.0	7.0	5.0
MDC-4015HP-1R5M	1.5	45.0	53.0	6.0	4.0
MDC-4015HP-2R2M	2.2	63.0	72.0	4.0	3.2
MDC-4015HP-3R3M	3.3	80±8%		3.8	3.0
MDC-4015HP-4R7M	4.7	120.0	140.0	2.8	2.2
MDC-4015HP-6R8M	6.8	230.0	276.0	2.3	1.7
MDC-4015HP-100M	10	345.0	400.0	1.9	1.5

Molding Power Inductors MDC - 4018HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-4018HP-R22M	0.22	6.6	7.3	21.0	12.0
MDC-4018HP-R33M	0.33	8.5	9.5	16.0	9.00
MDC-4018HP-R56M	0.56	16.0	20.0	9.00	6.00
MDC-4018HP-R68M	0.68	18.5	22.0	8.50	5.80
MDC-4018HP-1R0M	1.0	24.5	30.0	6.90	4.80
MDC-4018HP-1R2M	1.2	30.0	36.0	6.30	4.50
MDC-4018HP-1R5M	1.5	33.0	38.0	5.60	4.10
MDC-4018HP-2R2M	2.2	39.0	45.0	4.20	3.50
MDC-4018HP-3R3M	3.3	82.0	100.0	3.60	3.00
MDC-4018HP-4R7M	4.7	106.0	130.0	3.00	2.30
MDC-4018HP-5R6M	5.6	125.0	150.0	2.80	2.10
MDC-4018HP-6R8M	6.8	150.0	180.0	2.60	1.95
MDC-4018HP-8R2M	8.2	198.0	235.0	2.40	1.80
MDC-4018HP-100M	10	220.0	265.0	2.10	1.65

- (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 MDC - 4020HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-4020HP-47NY	0.047±30%	1.90	2.30	35.0	21.0
MDC-4020HP-R10Y	0.10±30%	3.20	4.00	35.0	14.0
MDC-4020HP-R12Y	0.12±30%	4.00	4.70	33.0	13.0
MDC-4020HP-R15Y	0.15±30%	4.20	5.00	31.0	14.0
MDC-4020HP-R18Y	0.18±30%	4.60	5.40	28.0	13.5
MDC-4020HP-R22Y	0.22±30%	6.60	7.30	24.0	13.0
MDC-4020HP-R24M	0.24	6.90	7.60	23.0	12.0
MDC-4020HP-R33M	0.33	7.80	8.60	18.0	10.0
MDC-4020HP-R36M	0.36	8.70	12.0	15.0	9.00
MDC-4020HP-R47M	0.47	11.2	14.0	12.0	8.00
MDC-4020HP-R50M	0.5	13.0	15.0	11.3	7.80
MDC-4020HP-R56M	0.56	13.5	16.0	10.0	7.30
MDC-4020HP-R60M	0.6	15.5	18.5	11.0	7.30
MDC-4020HP-R68M	0.68	16.0	19.0	10.0	7.00
MDC-4020HP-R82M	0.82	19.0	23.0	9.50	6.00
MDC-4020HP-1R0M	1.0	22.0	27.0	8.50	5.00
MDC-4020HP-1R2M	1.2	25.0	30.0	7.80	4.80
MDC-4020HP-1R5M	1.5	34.8	42.0	7.00	4.50
MDC-4020HP-1R8M	1.8	43.0	52.0	6.50	4.30
MDC-4020HP-2R2M	2.2	51.0	61.0	6.00	4.00
MDC-4020HP-3R3M	3.3	69.0	76.0	4.00	3.50
MDC-4020HP-3R6M	3.6	75.0	90.0	3.80	3.10
MDC-4020HP-4R7M	4.7	95.0	105.0	3.50	2.60
MDC-4020HP-5R6M	5.6	112.0	125.0	3.00	2.20
MDC-4020HP-6R8M	6.8	150.0	172.0	2.80	2.10
MDC-4020HP-8R2M	8.2	158.0	180.0	2.50	2.00
MDC-4020HP-100M	10	215.0	243.0	2.30	1.80
MDC-4020HP-120M	12	275.0	330.0	2.10	1.65
MDC-4020HP-150M	15	325.0	374.0	1.90	1.50
MDC-4020HP-200M	20	435.0	480.0	1.70	1.30
MDC-4020HP-220M	22	470.0	500.0	1.40	1.20

(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 MDC - 4030HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-4030HP-1R0M	1.0	14.0	17.0	9.0	7.0

Molding Power Inductors CMDC - 5012HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5012HP-R10Y	0.10±30%	4.3	5.2	14.5	14.0
MDC-5012HP-R15Y	0.15±30%	4.5	6.0	14.2	12.0
MDC-5012HP-R22Y	0.22±30%	5.5	6.7	14.0	10.7
MDC-5012HP-R33M	0.33	7.8	9.4	13.5	8.5
MDC-5012HP-R36M	0.36	10.0	11.5	13.0	8.0
MDC-5012HP-R47M	0.47	13.6	15.8	11.0	7.0
MDC-5012HP-R68M	0.68	21.5	24.5	9.0	6.0
MDC-5012HP-1R0M	1.0	26.0	30.0	6.0	5.0
MDC-5012HP-1R2M	1.2	33.0	40.0	5.5	4.5
MDC-5012HP-1R5M	1.5	38.0	44.0	5.0	4.0
MDC-5012HP-2R2M	2.2	65.0	75.0	4.00	3.50
MDC-5012HP-3R3M	3.3	75.0	86.0	3.80	3.00
MDC-5012HP-4R7M	4.7	100.0	115.0	3.20	2.50
MDC-5012HP-5R6M	5.6	175.0	201.0	3.20	2.40
MDC-5012HP-6R8M	6.8	193.0	222.0	3.00	2.00
MDC-5012HP-8R2M	8.2	327.0	378.0	2.80	1.70
MDC-5012HP-100M	10	335.0	385.0	1.80	1.50
MDC-5012HP-150M	15	410.0	470.0	1.60	1.30

(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 MDC - 5015HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5015HP-R10Y	0.1±30%	2.75	3.10	35.0	16.0
MDC-5015HP-R12Y	0.12±30%	3.30	3.90	28.0	17.0
MDC-5015HP-R15Y	0.15±30%	3.60	4.10	25.0	16.0
MDC-5015HP-R20Y	0.20±30%	3.80	4.20	22.5	15.0
MDC-5015HP-R22M	0.22	5.00	6.50	20.0	12.0
MDC-5015HP-R33M	0.33	8.50	9.80	16.0	9.0
MDC-5015HP-R36M	0.36	10.0	12.5	15.5	8.5
MDC-5015HP-R47M	0.47	12.0	13.8	15.0	8.0
MDC-5015HP-R68M	0.68	14.0	16.2	13.0	7.00
MDC-5015HP-1R0M	1.0	22.0	25.3	9.00	6.00
MDC-5015HP-1R5M	1.5	39.0	45.0	7.00	4.50
MDC-5015HP-2R2M	2.2	45.0	52.0	6.00	4.00
MDC-5015HP-3R3M	3.3	76.0	84.0	5.50	4.00
MDC-5015HP-4R7M	4.7	103.0	118.0	4.00	2.70
MDC-5015HP-5R6M	5.6	126.0	152.0	3.20	2.40
MDC-5015HP-6R8M	6.8	142.0	171.0	3.00	2.30
MDC-5015HP-8R2M	8.2	175.0	210.0	2.60	2.10
MDC-5015HP-100M	10.0	210.0	235.0	2.30	2.00
MDC-5015HP-150M	15.0	310.0	380.0	2.00	1.60
MDC-5015HP-220M	22.0	405.0	466.0	1.70	1.20

(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 MDC - 5018HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5018HP-R10Y	0.10±30%	2.5	2.8	40.0	17.0
MDC-5018HP-R12M	0.12	2.2	2.6	38.0	22.0
MDC-5018HP-R15Y	0.15±30%	3.5	3.9	27.0	15.5
MDC-5018HP-R20Y	0.20±30%	3.6	4.1	25.0	14.0
MDC-5018HP-R22M	0.22	4.2	5.0	22.0	13.0
MDC-5018HP-R33M	0.33	7.5	8.6	15.0	11.0
MDC-5018HP-R47M	0.47	9.8	11.3	14.0	10.0
MDC-5018HP-R56M	0.56	11.0	13.0	13.5	9.5
MDC-5018HP-R68M	0.68	12.4	14.3	13.0	9.0
MDC-5018HP-1R0M	1.0	18.2	21.0	10.0	6.8
MDC-5018HP-1R2M	1.2	17.0	20.0	10.0	8.5
MDC-5018HP-1R5M	1.5	26.0	30.0	9.0	6.0
MDC-5018HP-2R0M	2	35.0	42.0	8.0	5.0
MDC-5018HP-2R2M	2.2	42.0	48.3	7.5	4.5
MDC-5018HP-3R3M	3.3	60.0	69.0	5.0	3.5
MDC-5018HP-4R7M	4.7	85.0	98.0	4.5	3.0
MDC-5018HP-5R6M	5.6	110.0	127.0	4.0	2.5
MDC-5018HP-6R8M	6.8	118.0	137.0	3.5	2.4
MDC-5018HP-8R2M	8.2	143.0	165.0	3.0	2.3
MDC-5018HP-100M	10	165.0	190.0	2.8	2.3
MDC-5018HP-150M	15	275.0	318.0	2.3	1.7

(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 MDC - 5020HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5020HP-R10Y	0.10±30%	3.6	4.0	45.0	18.0
MDC-5020HP-R12Y	0.12±30%	3.7	4.3	35.0	17.0
MDC-5020HP-R15Y	0.15±30%	3.8	4.6	27.0	16.0
MDC-5020HP-R22M	0.22	4.0	5.5	25.0	15.0
MDC-5020HP-R24M	0.24	6.0	7.0	23.0	13.0
MDC-5020HP-R33M	0.33	6.3	7.3	21.3	12.0
MDC-5020HP-R36M	0.36	6.8	7.8	20.0	11.8
MDC-5020HP-R47M	0.47	7.3	8.6	18.0	11.5
MDC-5020HP-R56M	0.56	9.3	11.2	15.0	10.7
MDC-5020HP-R68M	0.68	11.0	12.4	12.8	10.0
MDC-5020HP-R82M	0.82	15.0	18.0	14.0	8.5

Molding Power Inductors MDC - 5020HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5020HP-1R0M	1.0	17.5	20.0	13.7	7.0
MDC-5020HP-1R2M	1.2	23.0	28.0	11.0	6.2
MDC-5020HP-1R5M	1.5	26.5	30.5	9.8	5.5
MDC-5020HP-2R2M	2.2	42.0	50.0	9.0	4.2
MDC-5020HP-2R7M	2.7	50.0	58.0	8.2	4.0
MDC-5020HP-3R3M	3.3	66.0	76.0	7.3	3.3
MDC-5020HP-4R7M	4.7	103	116	5.0	2.8
MDC-5020HP-5R6M	5.6	112	122	4.0	2.5
MDC-5020HP-6R8M	6.8	130	150	3.8	2.4
MDC-5020HP-8R2M	8.2	148	171	3.5	2.3
MDC-5020HP-100M	10	180	199	3.4	2.3
MDC-5020HP-150M	15	240	270	2.8	1.9
MDC-5020HP-220M	22	350	390	1.8	1.5

(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 MDC - 5030HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5030HP-R10Y	0.10 $\pm 30\%$	2.2	2.3	40.0	24.0
MDC-5030HP-R15Y	0.15 $\pm 30\%$	2.5	3.0	37.0	22.0
MDC-5030HP-R20Y	0.20 $\pm 30\%$	2.7	3.2	34.0	20.0
MDC-5030HP-R22M	0.22	3.2	3.8	32.0	19.0
MDC-5030HP-R33M	0.33	4.3	5.0	20.0	15.0
MDC-5030HP-R47M	0.47	6.3	7.1	18.0	13.0
MDC-5030HP-R56M	0.56	7.8	8.6	17.0	12.0
MDC-5030HP-R68M	0.68	8.0	9.0	15.5	11.0
MDC-5030HP-R82M	0.82	8.8	10.0	14.0	10.0
MDC-5030HP-1R0M	1.0	11.0	12.7	13.0	9.0
MDC-5030HP-1R2M	1.2	13.0	15.0	12.0	8.5
MDC-5030HP-1R5M	1.5	14.4	16.6	11.5	8.0
MDC-5030HP-2R2M	2.2	26.0	29.2	11.0	7.0
MDC-5030HP-3R3M	3.3	33.0	38.0	9.0	6.0
MDC-5030HP-4R7M	4.7	48.0	53.0	8.0	5.5
MDC-5030HP-5R6M	5.6	54.0	62.0	7.3	4.7
MDC-5030HP-6R8M	6.8	68.0	76.2	6.0	4.2
MDC-5030HP-8R2M	8.2	85.0	97.0	5.0	3.8
MDC-5030HP-100M	10	104	120	4.0	3.5
MDC-5030HP-150M	15	165	190	3.2	2.7
MDC-5030HP-220M	22	217	250	2.7	2.2

(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 MDC - 5030H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5030H-R10Y	0.10 $\pm 30\%$	2.5	3.0	27.0	23.0
MDC-5030H-R15Y	0.15 $\pm 30\%$	2.3	2.7	30.0	18.0
MDC-5030H-R20Y	0.20 $\pm 30\%$	2.6	3.2	25.0	16.0
MDC-5030H-R22M	0.22	3.7	4.4	21.0	15.5
MDC-5030H-R25M	0.25	3.7	4.1	20.0	15.0
MDC-5030H-R33M	0.33	4.3	5.0	18.0	14.0
MDC-5030H-R47M	0.47	6.4	7.4	16.0	12.0
MDC-5030H-R56M	0.56	8.0	10.0	15.0	10.0
MDC-5030H-R60M	0.6	8.4	10.4	14.5	9.0
MDC-5030H-R68M	0.68	10.0	12.0	14.0	8.5
MDC-5030H-R82M	0.82	11.5	13.0	12.5	8.0
MDC-5030H-1R0M	1.0	13.0	14.0	11.0	7.0
MDC-5030H-1R2M	1.2	14.0	16.0	11.0	6.5
MDC-5030H-1R5M	1.5	16.0	25.0	10.0	6.0
MDC-5030H-2R2M	2.2	25.0	35.0	9.0	5.5
MDC-5030H-2R4M	2.4	30.0	36.0	8.80	5.30
MDC-5030H-3R3M	3.3	32.0	38.0	8.00	5.00
MDC-5030H-3R6M	3.6	46.0	54.0	7.00	4.90
MDC-5030H-4R7M	4.7	50.0	53.0	6.00	4.60
MDC-5030H-5R6M	5.6	55.0	63.0	4.50	4.25
MDC-5030H-6R8M	6.8	68.0	76.2	4.30	4.00
MDC-5030H-100M	10	110.0	128.0	3.50	2.75
MDC-5030H-150M	15	165.0	190.0	2.60	2.10
MDC-5030H-180M	18	195.0	230.0	2.30	2.00
MDC-5030H-220M	22	220.0	250.0	1.70	1.90
MDC-5030H-330M	33	380.0	440.0	1.60	1.60

(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 MDC - 5030T Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-5030T-R10M	0.1	2.0	2.5	34.0	20.0
MDC-5030T-R20M	0.2	3.0	3.7	21.0	14.5
MDC-5030T-R22M	0.22	3.5	3.9	30.0	18.0
MDC-5030T-R33M	0.33	4.7	5.4	19.0	13.0
MDC-5030T-R47M	0.47	7.1	8.1	16.0	10.0
MDC-5030T-R56M	0.56	7.3	8.4	15.0	9.5
MDC-5030T-R68M	0.68	8.1	9.0	14.0	8.5
MDC-5030T-1R0M	1.0	12.5	14.0	11.0	7.0
MDC-5030T-1R2M	1.2	14.0	16.0	11.0	6.5
MDC-5030T-1R5M	1.5	17.0	22.0	10.0	6.0
MDC-5030T-2R2M	2.2	24.0	27.0	9.0	5.5
MDC-5030T-3R3M	3.3	32.0	38.0	7.0	5.0
MDC-5030T-4R7M	4.7	50.0	60.0	5.0	4.5

Molding Power Inductors MDC - 6012H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6012H-R10Y	0.10±30%	3.3	4.0	30.0	16.0
MDC-6012H-R15Y	0.15±30%	4.9	5.7	24.0	14.0
MDC-6012H-R22Y	0.22±30%	6.5	7.5	19.0	11.0
MDC-6012H-R33M	0.33	9.0	10.0	16.0	9.50
MDC-6012H-R47M	0.47	13.0	17.0	12.0	8.50
MDC-6012H-R68M	0.68	17.0	19.0	9.00	7.00
MDC-6012H-1R0M	1.0	27.0	30.0	7.00	6.00
MDC-6012H-1R2M	1.2	31.0	36.0	6.80	5.00
MDC-6012H-1R5M	1.5	35.0	40.0	6.50	4.50
MDC-6012H-2R2M	2.2	53.0	61.0	5.00	4.00
MDC-6012H-3R3M	3.3	90	103	4.00	3.20
MDC-6012H-4R7M	4.7	130	150	3.80	2.50
MDC-6012H-6R8M	6.8	172	198	3.00	2.10
MDC-6012H-100M	10	280	290	2.50	1.80
MDC-6012H-180M	18	490	540	2.00	1.35
MDC-6012H-220M	22	540	600	1.70	1.20

(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 MDC - 6015H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6015H-R10Y	0.10 $\pm 30\%$	2.50	3.10	35.00	17.50
MDC-6015H- R12Y	0.12 $\pm 30\%$	3.00	3.60	30.00	17.00
MDC-6015H-R15Y	0.15 $\pm 30\%$	3.70	4.50	25.00	16.00
MDC-6015H-R20Y	0.20 $\pm 30\%$	3.90	4.60	24.00	14.50
MDC-6015H-R22Y	0.22 $\pm 30\%$	4.30	5.20	22.00	14.00
MDC-6015H-R33M	0.33	6.60	7.60	18.00	11.00
MDC-6015H-R47M	0.47	9.00	10.30	16.00	9.50
MDC-6015H-R56M	0.56	12.50	14.00	15.50	9.00
MDC-6015H-R68M	0.68	13.80	15.20	15.00	7.50
MDC-6015H-R82M	0.82	20.00	24.00	14.00	7.00
MDC-6015H-1R0M	1.0	23.00	25.80	12.00	6.50
MDC-6015H-1R2M	1.2	29.00	34.00	10.50	5.60
MDC-6015H-1R5M	1.5	37.00	42.50	9.50	5.00
MDC-6015H-2R2M	2.2	48.00	55.00	6.50	4.50
MDC-6015H-3R3M	3.3	62.00	74.00	6.00	4.20
MDC-6015H-4R7M	4.7	96.0	111.0	5.00	3.80
MDC-6015H-5R6M	5.6	115.0	138.0	4.50	3.00
MDC-6015H-6R8M	6.8	128.0	148.0	3.50	2.60
MDC-6015H-8R2M	8.2	153.0	184.0	3.20	2.40
MDC-6015H-100M	10	180.0	216.0	2.80	2.30
MDC-6015H-220M	22	420.0	504.0	2.50	1.50
MDC-6015H-330M	33	640.0	750.0	2.00	1.20

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

Molding Power Inductors MDC - 6018H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6018H-R10Y	0.10 $\pm 30\%$	2.10	2.50	45.0	18.0
MDC-6018H-R15Y	0.15 $\pm 30\%$	2.20	2.60	34.0	18.0
MDC-6018H-R18Y	0.18 $\pm 30\%$	2.50	3.00	32.0	17.0
MDC-6018H-R22M	0.22	2.50	3.00	26.0	16.0
MDC-6018H-R33M	0.33	4.80	5.80	22.0	14.0
MDC-6018H-R47M	0.47	6.40	7.40	18.0	12.0
MDC-6018H-R56M	0.56	8.5	10.0	17.5	11.0
MDC-6018H-R68M	0.68	9.5	11.0	17.0	10.0
MDC-6018H-R82M	0.82	11.5	14.0	15.5	8.50
MDC-6018H-1R0M	1.0	14.5	17.0	14.0	7.00
MDC-6018H-1R2M	1.2	20.0	24.0	13.5	6.50
MDC-6018H-1R5M	1.5	21.0	25.2	13.0	6.00
MDC-6018H-2R2M	2.2	31.0	35.0	11.0	6.00
MDC-6018H-3R3M	3.3	40.0	46.0	9.00	5.00
MDC-6018H-4R7M	4.7	68.0	76.0	7.00	4.00
MDC-6018H-5R6M	5.6	78.0	86.0	6.00	3.50
MDC-6018H-6R8M	6.8	93.0	104.0	5.50	3.00
MDC-6018H-8R2M	8.2	123.0	140.0	4.50	2.60
MDC-6018H-100M	10	143.0	160.0	3.50	2.30
MDC-6018H-150M	15	240.0	280.0	3.00	2.00
MDC-6018H-220M	22	300.0	360.0	2.50	1.80
MDC-6018H-330M	33	550.0	650.0	2.10	1.30

(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 MDC - 6020H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6020H-R10Y	0.10 $\pm 30\%$	2.0	2.4	40.0	21.0
MDC-6020H-R12Y	0.12 $\pm 30\%$	2.2	2.6	39.5	20.0
MDC-6020H-R15Y	0.15 $\pm 30\%$	2.3	2.7	39.0	18.0
MDC-6020H-R18Y	0.18 $\pm 30\%$	2.4	2.9	36.0	18.0
MDC-6020H-R20Y	0.20 $\pm 30\%$	2.5	3.0	35.0	18.0
MDC-6020H-R22Y	0.22 $\pm 30\%$	3.5	4.0	32.0	15.0
MDC-6020H-R24M	0.24	3.6	4.3	32.0	14.5
MDC-6020H-R33M	0.33	4.5	5.0	25.0	14.0
MDC-6020H-R47M	0.47	7.1	8.3	20.0	11.7
MDC-6020H-R56M	0.56	7.9	9.3	18.0	11.0
MDC-6020H-R68M	0.68	8.3	10.0	16.0	10.5
MDC-6020H-R82M	0.82	12.5	16.0	15.0	9.5
MDC-6020H-1R0M	1.0	12.0	14.4	18.0	11.0
MDC-6020H-1R2M	1.2	19.0	23.0	13.0	7.5
MDC-6020H-1R5M	1.5	23.0	27.0	12.0	7.0
MDC-6020H-2R2M	2.2	32.0	37.0	10.0	6.0
MDC-6020H-3R3M	3.3	43.0	48.0	8.0	5.0
MDC-6020H-4R7M	4.7	53.0	60.0	7.0	4.5
MDC-6020H-5R6M	5.6	59.0	68.0	6.0	4.0
MDC-6020H-6R8M	6.8	63.0	73.0	5.5	4.0
MDC-6020H-8R2M	8.2	101	116	5.0	3.2
MDC-6020H-100M	10	134	154	4.0	2.8
MDC-6020H-150M	15	190	210	3.3	2.1
MDC-6020H-220M	22	236	280	2.5	1.5

- (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 MDC - 6024H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6024H-R10Y	0.10 $\pm 30\%$	1.4	1.7	70.0	30.0
MDC-6024H-R15Y	0.15 $\pm 30\%$	1.8	2.3	45.0	30.0
MDC-6024H-R20M	0.2	1.9	2.8	40.0	23.0
MDC-6024H-R22M	0.22	2.0	3.2	34.0	21.0
MDC-6024H-R33M	0.33	3.6	4.4	30.0	18.0
MDC-6024H-R36M	0.36	3.8	4.6	29.0	17.0
MDC-6024H-R47M	0.47	4.8	5.1	26.0	15.0
MDC-6024H-R56M	0.56	5.5	6.5	24.0	13.0
MDC-6024H-R60M	0.6	5.7	6.9	22	13
MDC-6024H-R68M	0.68	6.4	7.2	21	13
MDC-6024H-R82M	0.82	8	9.5	17	11
MDC-6024H-1R0M	1.0	10.5	13.5	16	11
MDC-6024H-1R2M	1.2	15	18	15.5	10
MDC-6024H-1R5M	1.5	17	20	15	9
MDC-6024H-2R2M	2.2	23	28	14	7
MDC-6024H-3R3M	3.3	34	39	10	6
MDC-6024H-4R7M	4.7	41	50	9	5.5
MDC-6024H-5R6M	5.6	56	62	8	5
MDC-6024H-6R8M	6.8	65	72	7	4
MDC-6024H-8R2M	8.2	81	95	6	3.6
MDC-6024H-100M	10	92	101	5	3.2
MDC-6024H-150M	15	150	180	3.5	2.5
MDC-6024H-220M	22	185	215	3	1.8

- (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 MDC - 6030H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6030H-R10Y	0.10±30%	1.20	1.70	60.0	32.5
MDC-6030H-R15Y	0.15±30%	1.50	1.90	45.0	27.0
MDC-6030H-R18Y	0.18±30%	1.70	2.30	43.0	25.0
MDC-6030H-R22Y	0.22±30%	2.10	2.80	40.0	23.0
MDC-6030H-R25M	0.25	3.30	3.50	39.0	21.0
MDC-6030H-R30M	0.3	3.20	3.80	35.0	21.0
MDC-6030H-R33M	0.33	3.50	3.90	32.0	20.0
MDC-6030H-R36M	0.36	2.20	2.45	31.0	25.0
MDC-6030H-R40M	0.4	3.71	4.10	27.5	18.0
MDC-6030H-R47M	0.47	4.00	4.20	26.0	17.5
MDC-6030H-R56M	0.56	4.70	5.00	25.5	16.5
MDC-6030H-R60M	0.6	4.70	5.20	25.5	16.0
MDC-6030H-R68M	0.68	4.80	5.50	25.0	15.5
MDC-6030H-R82M	0.82	6.70	8.00	24.0	13.0
MDC-6030H-1R0M	1.0	8.30	10.00	22.0	11.0
MDC-6030H-1R2M	1.2	10.00	12.00	20.0	10.0
MDC-6030H-1R5M	1.5	13.00	15.00	18.0	9.00
MDC-6030H-1R8M	1.8	14.0	17.0	16.0	8.50
MDC-6030H-2R0M	2.0	16.0	19.0	15.0	8.20
MDC-6030H-2R2M	2.2	18.0	20.0	14.0	8.00
MDC-6030H-2R5M	2.5	20.0	22.0	13.0	7.00
MDC-6030H-2R7M	2.7	24.0	27.0	13.0	7.00
MDC-6030H-3R3M	3.3	28.0	30.0	13.5	6.00
MDC-6030H-4R7M	4.7	37.0	40.0	10.0	5.50
MDC-6030H-5R6M	5.6	43.0	48.0	9.00	5.00
MDC-6030H-6R8M	6.8	54.0	60.0	8.00	4.50
MDC-6030H-8R2M	8.2	64.0	68.0	7.50	4.00
MDC-6030H-100M	10	75.0	85.0	6.00	3.50
MDC-6030H-120M	12	81.0	93.0	5.50	3.30
MDC-6030H-150M	15	107.0	123.0	4.00	3.00
MDC-6030H-180M	18	140.0	160.0	4.00	2.50
MDC-6030H-220M	22	165.0	190.0	3.50	2.00
MDC-6030H-270M	27	185.0	220.0	3.00	2.00
MDC-6030H-330M	33	200.0	240.0	2.50	2.00
MDC-6030H-400M	40	283.0	340.0	2.30	1.90
MDC-6030H-470M	47	302.0	363.0	2.00	1.75

- (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 MDC - 6040H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6040H-R12Y	0.12±30%	0.70	1.00	64.0	32.0
MDC-6040H-R15Y	0.15±30%	0.90	1.20	55.0	30.0
MDC-6040H-R22M	0.22	1.85	2.10	34.0	25.0
MDC-6040H-R33M	0.33	2.00	2.60	34.0	25.0
MDC-6040H-R36M	0.36	2.70	3.10	31.0	25.0
MDC-6040H-R47M	0.47	3.00	3.40	28.0	23.0
MDC-6040H-R56M	0.56	3.80	4.30	26.0	20.0
MDC-6040H-R68M	0.68	4.10	4.50	24.0	16.0
MDC-6040H-R82M	0.82	5.50	6.30	23.0	15.0
MDC-6040H-1R0M	1.0	6.80	8.00	22.0	14.0
MDC-6040H-1R5M	1.5	10.0	12.0	20.0	12.0
MDC-6040H-2R2M	2.2	11.5	14.0	14.0	9.0
MDC-6040H-3R3M	3.3	24.0	27.0	12.0	8.0
MDC-6040H-4R7M	4.7	28.0	32.5	11.0	6.0
MDC-6040H-5R6M	5.6	33.0	38.0	9.0	5.0
MDC-6040H-6R8M	6.8	44.0	50.0	8.5	4.5
MDC-6040H-8R2M	8.2	55.0	64.0	8.0	4.5
MDC-6040H-100M	10	64.0	72.0	7.0	4.0
MDC-6040H-150M	15	80.0	90.0	3.5	3.0
MDC-6040H-200M	20	115.0	135.0	3.5	2.7
MDC-6040H-220M	22	120.0	145.0	3.5	2.5
MDC-6040H-330M	33	180.0	210.0	3.2	1.8
MDC-6040H-470M	47	295.0	350.0	2.5	1.8

(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 MDC - 6050H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-6050H-R10Y	0.10±30%	0.65	0.78	65.0	32.0
MDC-6050H-R15Y	0.15±30%	1.30	1.70	50.0	30.0
MDC-6050H-R22M	0.22	1.60	1.90	35.0	25.0
MDC-6050H-R33M	0.33	2.50	3.00	32.0	25.0
MDC-6050H-R36M	0.36	2.50	2.80	35.0	25.0
MDC-6050H-R40M	0.4	3.10	3.70	31.0	23.0
MDC-6050H-R47M	0.47	3.50	3.90	30.0	22.0
MDC-6050H-R56M	0.56	3.60	4.20	27.0	20.0
MDC-6050H-R60M	0.6	3.80	4.30	25.0	19.0
MDC-6050H-R68M	0.68	4.00	4.50	24.0	18.0
MDC-6050H-R82M	0.82	4.60	4.90	22.0	16.5
MDC-6050H-1R0M	1.0	6.10	6.50	20.0	15.0
MDC-6050H-1R2M	1.2	6.7	7.5	18.0	14.0
MDC-6050H-1R5M	1.5	8.6	9.0	16.5	12.0
MDC-6050H-1R8M	1.8	9.5	11.0	15.0	12.0
MDC-6050H-2R2M	2.2	11.2	12.0	14.0	10.0
MDC-6050H-3R3M	3.3	19.0	20.9	12.0	8.0
MDC-6050H-4R7M	4.7	28.0	30.8	10.0	6.5
MDC-6050H-4R9M	4.9	32.0	38.0	9.5	6.3
MDC-6050H-5R6M	5.6	43.5	49.0	9.0	6.0
MDC-6050H-6R8M	6.8	46.0	51.5	8.5	5.5
MDC-6050H-8R2M	8.2	56.0	63.0	8.0	5.0
MDC-6050H-100M	10	60.0	69.0	7.5	4.0
MDC-6050H-120M	12	68.0	80.0	6.7	3.8
MDC-6050H-150M	15	81.0	92.0	6.0	3.5
MDC-6050H-220M	22	140	170	5.5	2.5
MDC-6050H-270M	27	155	186	4.5	2.3
MDC-6050H-330M	33	173	200	3.5	2.0
MDC-6050H-420M	42	212	245	2.8	2.0
MDC-6050H-470M	47	290	330	2.7	1.9
MDC-6050H-560M	56	342	396	2.1	1.6
MDC-6050H-680M	68	386	445	2.0	1.2
MDC-6050H-820M	82	430	500	1.8	1.1

(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 MDC - 8030HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-8030HP-R33M	0.33	2.2	2.5	47.0	25.0
MDC-8030HP-R47M	0.47	3.0	3.3	36.0	20.0
MDC-8030HP-1R0M	1.0	5.5	6.1	26.0	14.0
MDC-8030HP-1R5M	1.5	9.0	10.4	23.0	13.0
MDC-8030HP-2R2M	2.2	11.7	13.0	21.0	11.5
MDC-8030HP-3R3M	3.3	19.0	21.9	16.0	10.0
MDC-8030HP-4R7M	4.7	28.0	32.2	14.0	9.0
MDC-8030HP-6R8M	6.8	49.5	57.0	13.0	7.0
MDC-8030HP-8R2M	8.2	56.0	64.4	11.0	5.5
MDC-8030HP-100M	10	65.0	74.5	9.0	4.8
MDC-8030HP-330M	33	200	240	6.5	2.8

Molding Power Inductors MDC - 8040HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-8040HP-R22M	0.22	1.60	1.76	60.0	31.0
MDC-8040HP-R33M	0.33	2.00	2.20	55.0	30.0
MDC-8040HP-R47M	0.47	2.60	2.86	40.0	28.0
MDC-8040HP-R56M	0.56	2.70	2.97	38.0	25.0
MDC-8040HP-R68M	0.68	3.10	3.41	36.0	23.0
MDC-8040HP-R82M	0.82	3.70	4.10	32.0	21.0
MDC-8040HP-1R0M	1.0	4.50	4.95	29.0	18.0
MDC-8040HP-1R5M	1.5	6.60	7.30	27.0	17.0
MDC-8040HP-2R2M	2.2	10.80	11.90	25.0	16.0
MDC-8040HP-3R3M	3.3	15.0	16.5	22.0	14.0
MDC-8040HP-4R7M	4.7	26.8	29.5	19.0	8.5
MDC-8040HP-5R6M	5.6	30.0	35.0	17.0	7.5
MDC-8040HP-6R8M	6.8	40.0	46.0	17.0	6.5
MDC-8040HP-8R2M	8.2	44.0	51.0	16.0	6.5
MDC-8040HP-100M	10	53.0	61.0	10.0	5.6
MDC-8040HP-220M	22	100.0	120.0	8.0	3.9

- (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 MDC - 1002H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1002H-1R0M	1.0	15.0	18.0	26.0	8.5
MDC-1002H-1R5M	1.5	21.0	25.0	23.0	8.0
MDC-1002H-2R2M	2.2	27.0	32.0	19.0	7.0
MDC-1002H-2R7M	2.7	34.0	41.0	17.0	6.0
MDC-1002H-3R3M	3.3	44.0	52.0	16.0	5.5
MDC-1002H-4R7M	4.7	54.0	64.0	14.0	5.0
MDC-1002H-6R7M	6.8	63.0	73.0	11.0	4.0
CMDC-1002H-6R8M	6.8	63.0	73.0	11.0	4.0
MDC-1002H-8R2M	8.2	90.0	105.0	9.0	3.2

Molding Power Inductors MDC - 1003H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1003H-R15Y	0.15±30%	0.90	1.10	60.0	35.0
MDC-1003H-R22M	0.22	1.10	1.30	55.0	30.0
MDC-1003H-R33M	0.33	1.20	1.50	47.0	25.0
MDC-1003H-R36M	0.36	1.30	1.60	40.0	23.0
MDC-1003H-R47M	0.47	2.10	2.50	33.0	20.0
MDC-1003H-R56M	0.56	2.60	3.00	24.0	16.0
MDC-1003H-R82M	0.82	3.90	4.50	22.0	15.0
MDC-1003H-1R0M	1.0	4.60	6.00	20.0	15.0
MDC-1003H-1R5M	1.5	6.50	7.50	20.0	13.0
MDC-1003H-2R2M	2.2	8.00	9.00	16.0	12.0
MDC-1003H-3R3M	3.3	14.5	16.0	14.0	9.0
MDC-1003H-4R7M	4.7	20.5	22.5	13.0	7.0
MDC-1003H-5R6M	5.6	28.0	32.5	12.0	7.0
MDC-1003H-6R8M	6.8	30.2	35.0	9.5	6.5
MDC-1003H-8R2M	8.2	42.0	48.0	8.5	6.0
MDC-1003H-100M	10	50.0	55.0	8.0	5.0
MDC-1003H-150M	15	72.0	86.0	7.0	4.0
MDC-1003H-220M	22	115.0	140.0	5.5	3.0
MDC-1003H-470M	47	216.0	260.0	4.0	2.0

(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 MDC - 1004H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0 V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Max.	I rms (A)Max.	E(mm) ±0.3
MDC-1004H-R10Y	0.10±30%	0.35	0.41	85.0	46.0	3.0
MDC-1004H-R15Y	0.15±30%	0.50	0.60	75.0	43.0	3.0
MDC-1004H-R18Y	0.18±30%	0.54	0.80	72.0	38.0	3.0
MDC-1004H-R22M	0.22	0.80	1.00	60.0	35.0	3.0
MDC-1004H-R25M	0.25	0.80	1.00	60.0	33.5	3.0
MDC-1004H-R27M	0.27	0.82	1.00	60.0	33.0	3.0
MDC-1004H-R30M	0.3	0.94	1.10	60.0	32.0	3.0
MDC-1004H-R36M	0.36	1.05	1.20	60.0	31.0	3.0
MDC-1004H-R39M	0.39	1.10	1.30	60.0	30.0	3.0
MDC-1004H-R47M	0.47	1.30	1.50	43.0	28.0	3.0
MDC-1004H-R56M	0.56	1.60	1.80	40.0	25.0	3.0
MDC-1004H-R68M	0.68	2.40	2.70	39.0	22.0	3.0
MDC-1004H-R82M	0.82	2.40	2.80	39.0	22.0	3.0
MDC-1004H-1R0M	1.0	3.00	3.30	36.0	18.0	3.0
MDC-1004H-1R2M	1.2	3.30	3.80	33.0	17.0	3.0
MDC-1004H-1R5M	1.5	4.00	4.60	33.0	16.0	3.0
MDC-1004H-1R8M	1.8	5.30	6.40	30.0	14.0	3.0
MDC-1004H-2R2M	2.2	6.50	7.00	27.0	12.0	3.0
MDC-1004H-3R3M	3.3	10.8	11.8	20.0	11.0	3.0
MDC-1004H-4R7M	4.7	15.0	15.5	17.0	10.0	3.0
MDC-1004H-5R6M	5.6	17.0	19.3	14.0	9.0	3.0
MDC-1004H-6R8M	6.8	17.5	23.3	13.5	8.5	3.0
MDC-1004H-8R2M	8.2	20.0	22.5	12.5	8.0	3.0
MDC-1004H-100M	10	27.0	30.0	12.0	7.5	3.0
MDC-1004H-120M	12	36.0	42.0	11.0	6.8	3.0
MDC-1004H-150M	15	40.0	45.0	10.0	6.3	3.0
MDC-1004H-180M	18	56.0	62.0	9.0	5.5	3.0
MDC-1004H-220M	22	64.0	74.0	7.0	5.0	3.0
MDC-1004H-330M	33	92.0	112.0	5.0	3.5	3.0
MDC-1004H-470M	47	145.0	167.0	4.5	3.0	3.0
MDC-1004H-560M	56	185.0	215.0	3.5	2.5	3.0
MDC-1004H-680M	68	205.0	240.0	3.0	2.0	3.0
MDC-1004H-820M	82	265.0	320.0	2.5	1.5	3.0
MDC-1004H-101M	100	362.0	420.0	2.4	1.3	3.0

(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 MDC - 1005H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1005H-R22M	0.22	0.45	0.50	70.0	45.0
MDC-1005H-R30M	0.3	0.57	0.61	65.0	38.0
MDC-1005H-R47M	0.47	1.15	1.38	50.0	28.0
MDC-1005H-R50M	0.5	1.30	1.50	48.0	27.0
MDC-1005H-R56M	0.56	1.30	1.50	43.0	26.5
MDC-1005H-R82M	0.82	2.00	2.40	36.0	25.0
MDC-1005H-R90M	0.9	2.20	3.00	32.0	25.0
MDC-1005H-1R0M	1.0	2.80	3.50	30.0	22.0
MDC-1005H-1R2M	1.2	2.90	3.50	28.0	20.0
MDC-1005H-1R5M	1.5	3.50	4.10	27.0	19.0
MDC-1005H-1R8M	1.8	3.70	4.70	25.5	17.5
MDC-1005H-2R2M	2.2	5.40	6.00	24.0	16.0
MDC-1005H-3R3M	3.3	9.00	10.40	22.0	14.0
MDC-1005H-4R7M	4.7	10.0	12.5	19.0	13.0
MDC-1005H-5R0M	5.0	12.2	15.0	18.0	12.0
MDC-1005H-5R6M	5.6	14.0	16.8	16.0	10.0
MDC-1005H-6R8M	6.8	16.5	21.0	15.0	9.5
MDC-1005H-8R2M	8.2	18.5	24.0	14.5	9.0
MDC-1005H-100M	10	25.0	29.0	13.5	8.0
MDC-1005H-120M	12	30.0	35.0	10.0	6.0
MDC-1005H-150M	15	37.0	45.0	9.5	5.5
MDC-1005H-220M	22	50.0	60.0	9.0	5.0
MDC-1005H-240M	24	59.0	70.8	7.7	4.6
MDC-1005H-330M	33	80.0	92.0	7.5	4.3
MDC-1005H-470M	47	125.0	145.0	6.5	3.8
MDC-1005H-560M	56	155.0	186.0	5.0	3.0
MDC-1005H-680M	68	176.0	205.0	4.0	2.5
MDC-1005H-101M	100	315.0	380.0	3.0	2.0

(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 MDC - 1203HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1203HP-R36M	0.36	2.2	2.6	50.0	30.0
MDC-1203HP-R56M	0.56	2.9	3.5	42.0	27.0
MDC-1203HP-R68M	0.68	4.6	5.1	40.0	25.0
MDC-1203HP-1R0M	1.0	6.2	8.0	35.0	22.0
MDC-1203HP-1R5M	1.5	8.0	9.5	30.0	18.0
MDC-1203HP-2R2M	2.2	12.0	17.0	25.0	14.0
MDC-1203HP-3R3M	3.3	20.0	24.0	20.0	10.0
MDC-1203HP-4R7M	4.7	29.0	35.0	18.0	8.5
MDC-1203HP-100M	10	55.0	66.0	12.0	7.5
MDC-1203HP-150M	15	83.0	92.0	9.0	6.0
MDC-1203HP-220M	22	115.0	140.0	6.5	4.0
MDC-1203HP-330M	33	150.0	180.0	5.0	3.0
MDC-1203HP-470M	47	230.0	280.0	4.5	2.5

(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 MDC - 1205HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1205HP-R22M	0.22	0.50	0.70	110.0	52.0
MDC-1205HP-R33M	0.33	0.70	0.90	80.0	42.0
MDC-1205HP-R36M	0.36	0.75	0.95	75.0	42.0
MDC-1205HP-R39M	0.39	0.78	0.95	70.0	42.0
MDC-1205HP-R47M	0.47	0.86	1.10	65.0	38.0
MDC-1205HP-R50M	0.5	0.90	1.30	60.0	37.0
MDC-1205HP-R56M	0.56	1.00	1.50	55.0	36.0
MDC-1205HP-R68M	0.68	1.40	1.70	54.0	34.0
MDC-1205HP-R82M	0.82	1.70	2.10	52.0	31.0
MDC-1205HP-1R0M	1.0	1.85	2.50	50.0	29.0
MDC-1205HP-1R2M	1.2	2.50	3.00	49.0	28.0
MDC-1205HP-1R5M	1.5	2.80	3.30	48.0	27.0
MDC-1205HP-1R8M	1.8	4.00	4.90	40.0	21.0
MDC-1205HP-2R2M	2.2	4.20	5.50	32.0	20.0
MDC-1205HP-2R7M	2.7	4.70	6.70	32.0	17.0
MDC-1205HP-3R3M	3.3	6.80	9.20	32.0	15.0
MDC-1205HP-4R7M	4.7	11.40	15.00	27.0	12.0
MDC-1205HP-5R0M	5.0	12.00	15.50	24.0	12.0
MDC-1205HP-5R6M	5.6	12.30	16.50	22.0	11.5
MDC-1205HP-6R0M	6.0	13.00	16.50	21.5	11.5
MDC-1205HP-6R8M	6.8	14.50	18.50	21.0	11.0
MDC-1205HP-7R8M	7.8	16.00	19.20	19.0	10.0
MDC-1205HP-8R2M	8.2	16.80	22.50	18.0	9.5
MDC-1205HP-100M	10	21.40	25.50	16.0	9.0
MDC-1205HP-120M	12	28.0	34.0	15.0	8.6
MDC-1205HP-150M	15	32.0	38.0	13.0	8.2
MDC-1205HP-180M	18	40.0	45.0	11.0	7.5
MDC-1205HP-220M	22	50.0	58.0	10.0	6.5
MDC-1205HP-270M	27	63.0	76.0	8.5	5.2
MDC-1205HP-330M	33	73.0	88.0	8.0	5.0
MDC-1205HP-390M	39	87.0	100.0	7.5	4.7
MDC-1205HP-470M	47	100.0	120.0	6.5	4.0
MDC-1205HP-680M	68	135.0	162.0	5.5	3.5
MDC-1205HP-820M	82	198.0	238.0	4.8	3.0

(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 MDC - 1206HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1206HP-R22Y	0.22±30%	0.48	0.65	120.0	55.0
MDC-1206HP-R36M	0.36	0.72	0.90	80.0	42.0
MDC-1206HP-R47M	0.47	0.92	1.30	64.0	38.0
MDC-1206HP-R56M	0.56	1.15	1.50	60.0	35.0
MDC-1206HP-R68M	0.68	1.33	1.70	57.0	33.0
MDC-1206HP-R82M	0.82	1.50	1.90	55.0	31.0
MDC-1206HP-1R0M	1.0	1.80	2.40	53.0	29.0
MDC-1206HP-1R2M	1.2	2.10	2.80	51.0	28.0
MDC-1206HP-1R5M	1.5	2.70	3.20	50.0	26.0
MDC-1206HP-1R7M	1.7	3.50	4.00	48.0	25.0
MDC-1206HP-1R8M	1.8	3.50	4.00	47.0	24.0
MDC-1206HP-1R9M	1.9	3.70	4.30	44.0	22.0
MDC-1206HP-2R2M	2.2	4.00	4.70	43.0	21.0
MDC-1206HP-2R7M	2.7	4.60	5.40	40.0	19.0
MDC-1206HP-2R9M	2.9	4.90	6.00	38.0	18.0
MDC-1206HP-3R3M	3.3	5.80	7.10	35.0	17.0
MDC-1206HP-4R7M	4.7	9.50	11.50	30.00	16.00
MDC-1206HP-5R6M	5.6	10.80	12.60	28.00	15.50
MDC-1206HP-6R8M	6.8	12.00	13.80	25.00	15.00
MDC-1206HP-8R2M	8.2	13.60	16.00	23.00	11.00
MDC-1206HP-100M	10	18.00	20.70	21.00	11.00
MDC-1206HP-120M	12	20.00	23.00	18.00	9.50
MDC-1206HP-150M	15	25.00	29.00	16.00	9.00
MDC-1206HP-180M	18	30.00	35.00	15.00	8.50
MDC-1206HP-220M	22	34.00	39.50	14.00	8.00
MDC-1206HP-270M	27	49.00	56.00	13.00	7.00
MDC-1206HP-330M	33	65.00	75.00	12.00	6.00
MDC-1206HP-470M	47	80.00	90.00	11.00	5.50
MDC-1206HP-560M	56	101.0	118.0	10.00	5.30
MDC-1206HP-680M	68	120.0	140.0	9.00	5.00
MDC-1206HP-820M	82	138.0	161.0	8.50	4.50
MDC-1206HP-101M	100	180.0	200.0	8.00	4.00
MDC-1206HP-121M	120	210.0	235.0	7.00	3.50
MDC-1206HP-151M	150	300.0	350.0	6.00	3.00
MDC-1206HP-171M	170	345.0	415.0	5.00	2.50
MDC-1206HP-221M	220	480.0	550.0	4.00	2.00

(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 MDC - 1235HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1235HP-R10Y	0.10±30%	0.36	0.43	84.0	43.0
MDC-1235HP-R15Y	0.15±30%	0.40	0.48	75.0	41.0
MDC-1235HP-R22M	0.22	0.70	0.81	65.0	38.5
MDC-1235HP-R33M	0.33	0.85	1.00	62.0	36.5
MDC-1235HP-R36M	0.36	0.87	1.10	60.0	36.0
MDC-1235HP-R45M	0.45	1.05	1.50	58.0	33.0
MDC-1235HP-R47M	0.47	1.20	1.80	55.0	32.0
MDC-1235HP-R50M	0.5	1.25	1.80	54.0	31.0
MDC-1235HP-R56M	0.56	1.30	1.90	53.0	30.0
MDC-1235HP-R82M	0.82	2.20	3.00	44.0	25.0
MDC-1235HP-1R0M	1.0	2.70	3.50	40.0	24.0
MDC-1235HP-1R2M	1.2	4.00	5.00	37.0	21.0
MDC-1235HP-1R5M	1.5	4.80	5.50	35.0	19.0
MDC-1235HP-1R8M	1.8	5.20	7.00	30.0	17.0
MDC-1235HP-2R2M	2.2	6.30	8.00	29.0	16.0
MDC-1235HP-3R3M	3.3	11.00	13.50	27.0	12.0
MDC-1235HP-4R7M	4.7	15.3	18.5	24.0	10.0
MDC-1235HP-5R6M	5.6	18.0	22.0	19.0	9.50
MDC-1235HP-6R8M	6.8	20.0	24.0	18.0	9.00
MDC-1235HP-8R2M	8.2	23.0	28.0	16.0	8.50
MDC-1235HP-100M	10	29.0	34.0	14.0	7.50
MDC-1235HP-150M	15	55.0	65.0	10.0	6.50
MDC-1235HP-220M	22	83.0	99.0	7.00	4.50
MDC-1235HP-330M	33	132	160	6.00	3.50
MDC-1235HP-470M	47	181	218	5.50	3.00

(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 MDC - 1265HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1265HP-R15M	0.15	0.49	0.60	118.0	55.0
MDC-1265HP-R22M	0.22	0.47	0.60	112.0	53.0
MDC-1265HP-R30M	0.3	0.60	0.72	72.0	48.0
MDC-1265HP-R33M	0.33	0.65	0.80	68.0	46.0
MDC-1265HP-R36M	0.36	0.70	0.90	66.0	45.0
MDC-1265HP-R40M	0.4	0.70	1.00	64.0	44.0
MDC-1265HP-R45M	0.45	0.90	1.20	63.0	42.0
MDC-1265HP-R47M	0.47	0.90	1.20	63.0	41.0
MDC-1265HP-R50M	0.5	0.92	1.25	60.0	40.0
MDC-1265HP-R56M	0.56	1.05	1.20	58.0	37.0
MDC-1265HP-R68M	0.68	1.25	1.50	55.0	35.0
MDC-1265HP-R82M	0.82	1.50	1.90	50.0	33.0
MDC-1265HP-1R0M	1.0	1.70	2.00	54.0	32.0
MDC-1265HP-1R2M	1.2	1.90	2.40	47.0	28.0
MDC-1265HP-1R5M	1.5	2.50	3.00	45.0	27.0
MDC-1265HP-1R8M	1.8	3.60	4.00	40.0	24.0
MDC-1265HP-2R2M	2.2	3.80	4.20	37.0	22.0
MDC-1265HP-2R7M	2.7	4.30	5.50	32.0	20.0
MDC-1265HP-3R3M	3.3	5.70	6.80	30.0	18.0
MDC-1265HP-4R7M	4.7	7.00	8.40	28.0	13.5
MDC-1265HP-5R6M	5.6	8.50	10.00	23.0	12.5
MDC-1265HP-6R8M	6.8	9.50	11.50	18.0	11.5
MDC-1265HP-7R0M	7.0	10.00	12.30	17.7	11.2
MDC-1265HP-8R2M	8.2	12.00	15.50	16.0	10.5
MDC-1265HP-100M	10	13.20	16.50	15.5	10.0
MDC-1265HP-120M	12	16.0	20.0	14.0	9.5
MDC-1265HP-130M	13	21.0	24.0	13.0	9.0
MDC-1265HP-150M	15	23.2	28.0	12.5	9.0
MDC-1265HP-220M	22	32.5	37.0	12.0	9.0
MDC-1265HP-250M	25	40.0	47.0	11.5	8.5
MDC-1265HP-330M	33	48.0	58.0	11.0	8.0
MDC-1265HP-470M	47	76.0	90.0	9.5	6.5
MDC-1265HP-560M	56	90.0	108.0	8.6	5.5
MDC-1265HP-680M	68	110.0	130.0	7.8	4.8
MDC-1265HP-820M	82	135.0	155.0	6.5	4.5
MDC-1265HP-101M	100	145.0	165.0	5.5	4.2
MDC-1265HP-151M	150	220.0	250.0	5.0	3.2
MDC-1265HP-331M	330	650.0	780.0	3.0	1.8

(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 MDC - 1707HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) ±20% 100KHz/1.0V	DCR (mΩ) Typ.	DCR (mΩ) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-1707HP-R22M	0.22	0.63	0.75	135.0	80.0
MDC-1707HP-R33M	0.33	0.75	0.9	130.0	70.0
MDC-1707HP-R45M	0.45	0.8	0.96	125.0	62.0
MDC-1707HP-R47M	0.47	0.95	1.03	123.0	62.0
MDC-1707HP-R68M	0.68	1.20	1.50	90.0	55.0
MDC-1707HP-R82M	0.82	1.40	1.80	75.0	53.0
MDC-1707HP-1R0M	1.0	1.60	2.00	70.0	52.0
MDC-1707HP-1R3M	1.3	1.70	2.30	67.0	49.0
MDC-1707HP-1R5M	1.5	2.00	2.50	65.0	47.0
MDC-1707HP-1R8M	1.8	2.10	2.50	63.0	45.0
MDC-1707HP-2R2M	2.2	2.40	2.70	62.0	43.5
MDC-1707HP-3R3M	3.3	3.50	3.90	54.0	28.0
MDC-1707HP-4R7M	4.7	4.80	5.50	50.0	25.0
MDC-1707HP-5R6M	5.6	5.80	7.05	45.0	21.0
MDC-1707HP-6R8M	6.8	8.40	9.20	39.0	19.0
MDC-1707HP-7R4M	7.4	8.80	9.70	34.0	18.5
MDC-1707HP-8R2M	8.2	9.60	10.80	31.0	18.0
MDC-1707HP-100M	10	11.80	13.00	29.0	16.5
MDC-1707HP-150M	15	17.80	20.50	27.0	12.5
MDC-1707HP-220M	22	25.10	26.50	23.0	12.0
MDC-1707HP-330M	33	38.0	44.0	20.0	10.7
MDC-1707HP-390M	39	40.0	48.0	18.0	9.2
MDC-1707HP-470M	47	48.0	55.0	16.0	8.7
MDC-1707HP-560M	56	54.0	62.0	15.0	7.8
MDC-1707HP-680M	68	68.0	80.0	13.0	7.0
MDC-1707HP-820M	82	87.0	100.0	12.0	5.7
MDC-1707HP-101M	100	102.0	118.0	12.0	5.3
MDC-1707HP-151M	150	140.0	168.0	10.0	4.6

(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 MDC - 2313HP Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-2313HP-3R3M	3.3	1.7	2.0	70.0	42.0
MDC-2313HP-820M	82	33.5	40.0	14.0	11.5

Molding Power Inductors MDC - 110704H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-110704H-R15M	0.15	0.35 $\pm 7\%$		70.0	50.0
MDC-110704H-R18M	0.18	0.45 $\pm 7\%$		70.0	40.0
MDC-110704H-R22M	0.22	0.51 $\pm 7\%$		70.0	35.0

Molding Power Inductors MDC - 110705H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-110705H-R15M	0.15	0.45 $\pm 10\%$		110.0	41.0
MDC-110705H-R22M	0.22	0.9 $\pm 7\%$		75.0	34.0
MDC-110705H-R33M	0.33	1.3 $\pm 5\%$		80.0	32.0

Molding Power Inductors MDC - 120804H Series

ELECTRICAL CHARACTERISTIC:

Part Number	L (uH) $\pm 20\%$ 100KHz/1.0V	DCR (m Ω) Typ.	DCR (m Ω) Max.	I sat (A)Typ.	I rms (A)Typ.
MDC-120804H-R22M	0.22	0.45	0.60	80.0	45.0
MDC-120804H-R33M	0.33	0.90	1.05	70.0	36.0
MDC-120804H-R47M	0.47	1.10	1.20	60.0	35.0

(1).I sat Current: Temp.rise $\Delta L/L_{0A}$ 30% Typ

(2).I rms Current: Temp.rise 40°C Typ

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