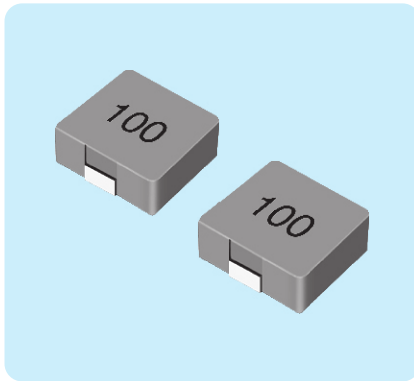


MCH Series Power Inductors

MCH系列一体成型大电流电感器



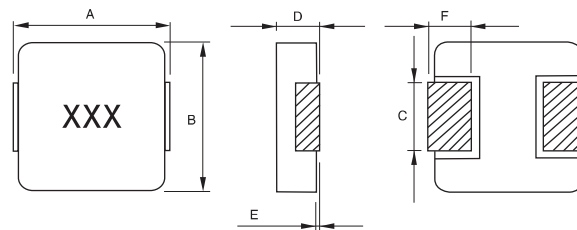
FEATURES 特性

- 表面贴装型式
- 低直流电阻抗大电流

APPLICATIONS 用途

- 适用于电源供应器，个人电脑和其它掌上型电子设备中直流对直流转换作用。

SHAPE AND DIMENSIONS 外形尺寸



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
MCH0420	4.40±0.35	4.2±0.2	2.0±0.3	2.0 MAX	0~+0.15	0.80±0.30
MCH0520	5.40±0.35	5.2±0.2	2.0±0.3	2.0 MAX	0~+0.15	1.10±0.30
MCH0530	5.40±0.35	5.2±0.2	2.0±0.3	3.0 MAX	0~+0.15	1.10±0.30
MCH0620	6.95±0.35	6.6±0.2	3.0±0.5	2.0 MAX	0~+0.15	1.60±0.30
MCH0624	6.95±0.35	6.6±0.2	3.0±0.5	2.4 MAX	0~+0.15	1.60±0.30
MCH0630	6.95±0.35	6.6±0.2	3.0±0.5	3.0 MAX	0~+0.15	1.60±0.30
MCH0650	6.95±0.35	6.6±0.2	3.0±0.5	5.0 MAX	0~+0.15	1.60±0.30
MCH1030	11.15±0.35	10.0±0.3	3.0±0.5	3.0 MAX	0~+0.15	2.00±0.50
MCH1040	11.15±0.35	10.0±0.3	3.0±0.5	4.0 MAX	0~+0.15	2.00±0.50
MCH1350	13.45±0.35	12.6±0.2	4.0±0.5	5.0 MAX	0~+0.15	2.50±0.50
MCH1360	13.45±0.5	12.6±0.5	4.0±0.5	6.0 MAX	0~+0.15	2.50±0.50

PART NUMBERING 规格编号

MCH 0630 — 2R2 M I

① — ② — ③ — ④ — ⑤

- ① Product symbol系列代号:
- ② Dimensions尺寸: Diameter直径×Thickness厚度
- ③ Inductance电感量: 2R2 : 2.2 μ H, R47 : 0.47 μ H, 100 : 10 μ H
- ④ Tolerance允许偏差: K— \pm 10%, J— \pm 5%, M— \pm 20%, N— \pm 30%
- ⑤ Packing style 包装方式: B: Bulk 散装, T: Tape and reel 载带盘装

SPECIFICATIONS规格特性

● MCH0420系列

产品型号规格 Part Number	电感量 L0(uH) Inductance (uH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH0420-R10	0.10±20%	3.5	4.0	12.0	22.0
MCH0420-R22	0.22±20%	6.0	6.6	9.0	12.5
MCH0420-R47	0.47±20%	12.5	14.0	7.0	9.5
MCH0420-1R0	1.00±20%	24.0	27.0	4.5	7.0
MCH0420-1R5	1.50±20%	38.0	46.0	4.0	6.0
MCH0420-2R2	2.20±20%	52.0	58.0	3.0	5.0
MCH0420-3R3	3.30±20%	74.0	87.0	2.5	4.0
MCH0420-4R7	4.70±20%	118.0	132.0	2.4	2.8
MCH0420-6R8	6.80±20%	162.0	178.0	2.0	2.1
MCH0420-8R2	8.20±20%	188.0	207.0	1.8	2.0
MCH0420-100	10.0±20%	256.0	282.0	1.6	1.8

● MCH0520系列

产品型号规格 Part Number	电感量 L0(uH) Inductance (uH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH0520-R10	0.10±20%	2.7	2.9	21.0	25.0
MCH0520-R22	0.22±20%	4.1	4.5	13.0	17.0
MCH0520-R33	0.33±20%	5.5	5.9	8.5	13.0
MCH0520-R47	0.47±20%	7.1	7.7	8.0	12.5
MCH0520-1R0	1.0±20%	16.8	18.1	7.0	7.5
MCH0520-2R2	2.2±20%	34.9	37.7	5.0	5.5
MCH0520-3R3	3.3±20%	58.5	68.0	4.1	4.7
MCH0520-4R7	4.7±20%	75.3	81.3	3.0	3.2
MCH0520-5R6	5.6±20%	85.2	92	2.2	3.0
MCH0520-6R8	6.8±20%	114	121	2.1	2.8
MCH0520-100	10±20%	200	220	2.0	2.2

● MCH0530系列

产品型号规格 Part Number	电感量 L0(uH) Inductance (uH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH0530-R10	0.10±20%	2.0	2.5	32.0	34.0
MCH0530-R12	0.12±20%	2.2	2.6	30.0	32.0
MCH0530-R20	0.20±20%	3.5	3.9	21.0	25.0
MCH0530-R35	0.35±20%	4.5	5.0	16.5	18.0
MCH0530-R68	0.68±20%	11.0	12.0	8.5	14.0
MCH0530-1R0	1.00±20%	13.0	14.0	7.0	11.0
MCH0530-1R2	1.20±20%	15.0	16.0	6.5	10.5
MCH0530-1R5	1.50±20%	20.0	25.0	6.0	10.0
MCH0530-2R2	2.20±20%	29.0	35.0	5.5	9.0
MCH0530-3R3	3.30±20%	32.0	38.0	5.0	7.0
MCH0530-4R7	4.70±20%	50.0	60.0	4.5	5.0
MCH0530-5R6	5.60±20%	55.0	63.0	4.0	4.5
MCH0530-6R8	6.80±20%	68.0	76.0	3.0	3.5
MCH0530-8R2	8.20±20%	80.0	105.0	3.25	4.0
MCH0530-100	10.0±20%	110.0	128.0	2.75	3.5

● MCH0620系列

产品型号规格 Part Number	电感量 L0(uH) Inductance (uH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH0620-R10	0.10±20%	2.0	2.5	18.0	45.0
MCH0620-R22	0.22±20%	4.5	5.2	14.0	29.0
MCH0620-R33	0.33±20%	5.2	6.8	12.0	22.0
MCH0620-R47	0.47±20%	7.3	8.4	11.0	18.0
MCH0620-R68	0.68±20%	10.8	12.7	9.0	17.0
MCH0620-1R0	1.00±20%	14.5	17.0	7.0	14.0
MCH0620-1R5	1.50±20%	20.0	26.0	6.5	13.5
MCH0620-2R2	2.20±20%	31.0	35.0	6.0	13.0
MCH0620-3R3	3.30±20%	56.0	60.0	4.0	10.0
MCH0620-4R7	4.70±20%	68.0	70.0	3.5	5.0
MCH0620-5R6	5.60±20%	78.0	86.0	3.3	4.5
MCH0620-6R8	6.80±20%	101.0	110.0	2.8	3.5
MCH0620-8R2	8.20±20%	123.0	140.0	2.6	3.3
MCH0620-100	10.0±20%	143.0	160.0	2.3	3.0
MCH0620-150	15.0±20%	215.0	250.0	1.8	2.2

● MCH0624系列

产品型号规格 Part Number	电感量 L0(uH) Inductance (uH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH0624-R10	0.10±20%	1.6	1.9	30.0	60.0
MCH0624-R22	0.22±20%	2.6	3.2	21.0	33.0
MCH0624-R33	0.33±20%	3.5	4.1	18.0	24.0
MCH0624-R47	0.47±20%	4.5	5.1	15.0	21.0
MCH0624-R56	0.56±20%	5.9	6.5	13.0	17.0
MCH0624-R82	0.82±20%	8.3	9.5	11.0	16.0
MCH0624-1R0	1.00±20%	11.2	13.5	10.0	14.0
MCH0624-1R5	1.50±20%	17.0	20.0	9.0	11.0
MCH0624-2R2	2.20±20%	23.0	28.0	7.0	9.0
MCH0624-3R3	3.30±20%	31.0	39.0	5.5	7.0
MCH0624-4R7	4.70±20%	41.0	50.0	5.0	6.0
MCH0624-5R6	5.60±20%	51.0	60.0	4.5	5.5
MCH0624-6R8	6.80±20%	57.0	70.0	4.0	5.0
MCH0624-100	10.0±20%	92.0	101.0	3.1	4.0
MCH0624-150	15.0±20%	145.0	160.0	2.5	3.3

● MCH0630系列

产品型号规格 Part Number	电感量 L0(μH) Inductance (μH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH0630-R10	0.10±20%	1.5	1.7	32.5	60.0
MCH0630-R15	0.15±20%	1.9	2.5	30.0	40.0
MCH0630-R22	0.22±20%	2.5	2.8	23.0	34.0
MCH0630-R36	0.36±20%	3.3	3.9	20.0	30.0
MCH0630-R47	0.47±20%	3.5	4.2	17.5	26.0
MCH0630-R56	0.56±20%	4.3	5.0	16.5	25.5
MCH0630-R68	0.68±20%	5.0	5.5	15.5	25.0
MCH0630-R82	0.82±20%	6.0	8.0	13.0	24.0
MCH0630-1R0	1.00±20%	7.0	10.0	11.0	22.0
MCH0630-1R2	1.20±20%	8.0	12.0	10.0	20.0
MCH0630-1R5	1.50±20%	10.6	15.0	9.0	18.0
MCH0630-2R2	2.20±20%	15.5	20.0	8.0	14.0
MCH0630-3R3	3.30±20%	23.0	30.0	6.0	13.5
MCH0630-4R7	4.70±20%	34.5	40.0	5.5	10.0
MCH0630-5R6	5.60±20%	36.0	42.0	5.0	9.0
MCH0630-6R8	6.80±20%	50.0	60.0	4.5	8.0
MCH0630-8R2	8.20±20%	58.5	65.0	4.3	6.0
MCH0630-100	10.0±20%	64.0	68.0	4.0	5.5
MCH0630-120	12.0±20%	85.0	95.0	3.3	5.0
MCH0630-150	15.0±20%	98.0	110.0	3.0	4.0
MCH0630-220	22.0±20%	161.0	189.0	1.5	3.1
MCH0630-330	33.0±20%	218.0	257.0	1.0	2.9

● MCH0650系列

产品型号规格 Part Number	电感量 L0(μH) Inductance (μH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH0650-R13	0.13±20%	1.0	1.2	42.0	48.0
MCH0650-R22	0.22±20%	1.1	1.3	30.0	35.0
MCH0650-R36	0.36±20%	3.2	3.5	21.0	25.0
MCH0650-R47	0.47±20%	3.3	3.6	20.0	21.0
MCH0650-R56	0.56±20%	3.4	3.75	18.0	20.0
MCH0650-R68	0.68±20%	3.9	4.2	16.0	18.0
MCH0650-R82	0.82±20%	4.6	4.9	15.0	17.0
MCH0650-1R0	1.00±20%	5.6	6.5	13.0	15.0
MCH0650-1R2	1.20±20%	6.0	7.5	11.0	12.0
MCH0650-1R5	1.50±20%	6.7	8.0	10.0	11.0
MCH0650-2R2	2.20±20%	11.2	12.5	8.0	10.0
MCH0650-3R3	3.30±20%	19.9	20.9	7.0	8.0
MCH0650-4R7	4.70±20%	23.0	25.0	6.5	7.5
MCH0650-5R6	5.60±20%	31.5	34.4	6.0	7.0
MCH0650-6R8	6.80±20%	36.5	41.0	5.0	6.5
MCH0650-8R2	8.20±20%	40.0	43.0	4.5	6.0
MCH0650-100	10.0±20%	48.0	55.0	4.0	5.5
MCH0650-150	15.0±20%	110.0	127.0	3.1	3.4
MCH0650-220	22.0±20%	165.0	190.0	2.6	2.8
MCH0650-330	33.0±20%	184.0	237.0	2.0	2.5
MCH0650-470	47.0±20%	193.0	280.0	1.5	2.0

● MCH1030系列

产品型号规格 Part Number	电感量 L0(μH) Inductance (μH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH1030-R12	0.12±20%	0.65	0.75	30.0	75.0
MCH1030-R24	0.24±20%	1.10	1.27	29.0	50.0
MCH1030-R33	0.33±20%	1.30	1.60	25.0	32.0
MCH1030-R36	0.36±20%	1.50	1.80	24.0	28.0
MCH1030-R47	0.47±20%	2.1	2.5	23.0	26.0
MCH1030-R56	0.56±20%	2.4	3.0	22.0	24.0
MCH1030-R68	0.68±20%	2.9	3.4	21.0	23.0
MCH1030-1R0	1.00±20%	5.3	6.0	14.0	20.0
MCH1030-1R5	1.50±20%	6.5	7.5	12.0	18.0
MCH1030-2R2	2.20±20%	8.0	9.0	10.0	16.0
MCH1030-3R3	3.30±20%	14.5	16.0	9.0	14.0
MCH1030-4R7	4.70±20%	20.5	22.5	7.0	13.0
MCH1030-5R6	5.60±20%	27.0	30.0	6.0	11.0
MCH1030-6R8	6.80±20%	30.0	35.0	5.5	9.0
MCH1030-8R2	8.20±20%	35.0	45.0	5.0	8.5
MCH1030-100	10.0±20%	50.0	55.0	4.5	7.5
MCH1030-150	15.0±20%	59.0	65.0	4.0	6.5
MCH1030-220	22.0±20%	90.0	99.0	3.0	5.0

● MCH1040系列

产品型号规格 Part Number	电感量 L0(μH) Inductance (μH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH1040-R22	0.22±20%	0.90	1.00	35.00	60.00
MCH1040-R36	0.36±20%	1.05	1.20	30.00	50.00
MCH1040-R39	0.39±20%	1.10	1.30	28.00	45.00
MCH1040-R47	0.47±20%	1.53	1.68	26.00	40.00
MCH1040-R56	0.56±20%	1.60	1.80	24.00	33.00
MCH1040-R68	0.68±20%	2.10	2.40	23.00	30.00
MCH1040-R88	0.88±20%	2.35	2.70	20.00	29.00
MCH1040-1R0	1.00±20%	3.00	3.30	18.00	28.00
MCH1040-1R5	1.50±20%	3.80	4.20	15.00	27.00
MCH1040-1R8	1.80±20%	5.00	5.80	13.00	22.00
MCH1040-2R2	2.20±20%	6.00	7.00	12.00	18.00
MCH1040-3R3	3.30±20%	10.80	11.80	10.00	16.00
MCH1040-4R7	4.70±20%	17.00	20.00	8.50	14.00
MCH1040-5R6	5.60±20%	20.00	23.00	8.00	13.00
MCH1040-6R8	6.80±20%	22.50	25.00	7.00	12.00
MCH1040-8R2	8.20±20%	25.00	27.00	6.00	9.00
MCH1040-100	10.0±20%	27.00	30.00	5.50	8.50
MCH1040-150	15.0±20%	40.00	45.00	5.00	7.00
MCH1040-220	22.0±20%	60.00	66.00	4.50	5.50
MCH1040-330	33.0±20%	85.00	92.00	4.00	4.50
MCH1040-470	47.0±20%	130.00	145.00	3.30	3.50
MCH1040-680	68.0±20%	178.50	195.00	2.30	3.00
MCH1040-820	82.0±20%	270.00	300.00	2.00	2.50

● MCH1350系列

产品型号规格 Part Number	电感量 L0(μH) Inductance (μH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH1350-R15	0.15±20%	0.55	0.70	45.0	110.0
MCH1350-R36	0.36±20%	0.77	1.10	41.0	75.0
MCH1350-R47	0.47±20%	1.10	1.30	38.0	65.0
MCH1350-R56	0.56±20%	1.20	1.50	36.0	55.0
MCH1350-R68	0.68±20%	1.50	1.70	34.0	54.0
MCH1350-R82	0.82±20%	1.80	2.10	31.0	53.0
MCH1350-1R0	1.00±20%	2.10	2.50	29.0	50.0
MCH1350-1R2	1.20±20%	2.60	3.00	25.0	49.0
MCH1350-1R5	1.50±20%	3.40	4.10	23.0	48.0
MCH1350-2R2	2.20±20%	4.60	5.50	20.0	32.0
MCH1350-3R3	3.30±20%	7.70	9.12	15.0	30.0
MCH1350-4R7	4.70±20%	12.8	15.0	12.0	27.0
MCH1350-5R6	5.60±20%	13.0	16.0	10.5	15.0
MCH1350-6R8	6.80±20%	15.4	18.5	10.0	14.0
MCH1350-8R2	8.20±20%	16.0	20.0	9.0	13.0
MCH1350-100	10.0±20%	22.0	25.0	8.0	12.0

● MCH1360系列

产品型号规格 Part Number	电感量 L0(μH) Inductance (μH) @ (0A)	直流电阻 Rdc (mΩ) @25°C		温升电流 Heat Rating Current DC Amps. Irms (A)	饱和电流 Saturation Current DC Amps. Isat (A)
		Typical	Maximum	Typical	Typical
MCH1360-1R0	1.0±20%	1.5	1.7	30.0	38.0
MCH1360-2R2	2.2±20%	2.7	3.0	20.0	28.0
MCH1360-3R3	3.3±20%	5.0	6.5	16.0	22.0
MCH1360-4R7	4.7±20%	6.8	8.0	13.0	18.0
MCH1360-6R8	6.8±20%	11.0	15.0	12.0	15.0
MCH1360-8R2	8.2±20%	13.6	16.0	11.0	13.5
MCH1360-100	10.0±20%	18.0	20.7	10.0	12.5
MCH1360-120	12.0±20%	20.0	23.0	7.0	10.0
MCH1360-150	15.0±20%	25.0	29.0	6.0	9.0
MCH1360-180	18.0±20%	30.0	35.0	5.0	8.0
MCH1360-220	22.0±20%	34.0	39.5	4.5	7.5
MCH1360-270	27.0±20%	49.0	56.0	4.0	6.5
MCH1360-330	33.0±20%	65.0	75.0	3.8	6.0
MCH1360-470	47.0±20%	80.0	90.0	3.5	5.5
MCH1360-680	68.0±20%	120.0	140.0	3.0	4.5
MCH1360-101	100.0±20%	180.0	200.0	2.5	3.5
MCH1360-121	120.0±20%	210.0	235.0	2.3	3.2
MCH1360-151	150.0±20%	300.0	350.0	2.0	2.7