

Radial Lead High Current Power Inductors

Application Field

Desktop, and server applications.

High current power supplies.

Battery powered devices.

DC/DC converters in distributed power systems.

DC/DC converters for field programmable gate array.

FEATURES

RoHS Compliant..

Super low resistance ,ultra high current rating.

High performance (I sat) realized by metal dust core.

Frequency Range :up to 1MHz.

Dimensions (Unit: mm)

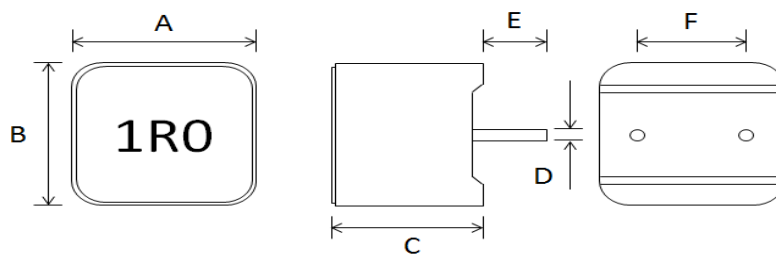


Fig-1

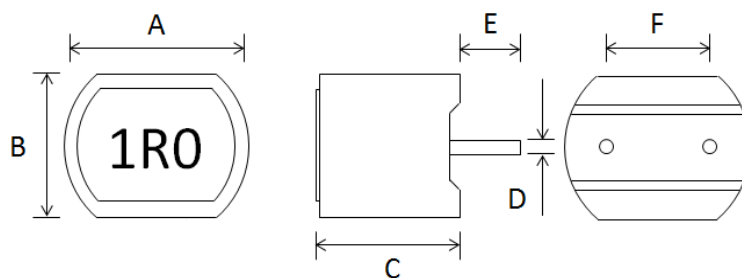


Fig-2

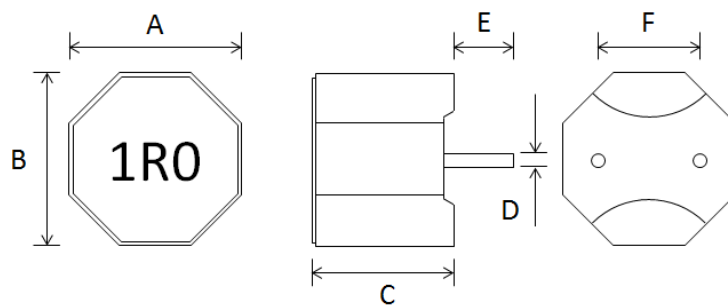


Fig-3

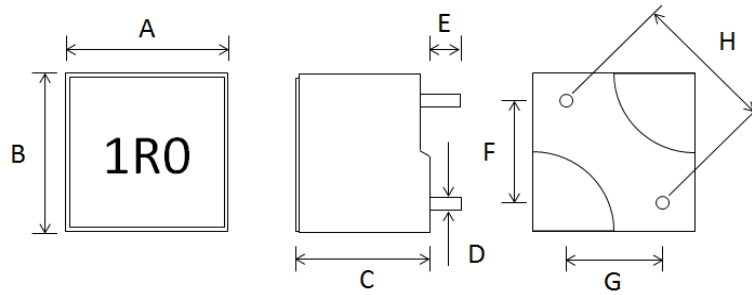


Fig-4

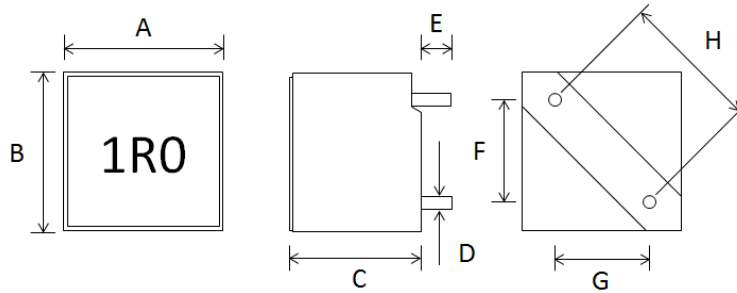


Fig-5

Unit : mm

Size	A	B	C	D	E	F	G	H	Fig
MCHC-070707	7.7±0.5	7.7±0.5	7.9Max	PIN(Ref)	3.0±0.5	5.0±0.5			1
MCHC-080808	9.3MAX	7.7MAX	7.9MAX	PIN(Ref)	3.4±0.5	6.0±0.3			2
MCHC-101210	12.7±0.5	10.7±0.5	10.0MAX	PIN(Ref)	3.4±0.5	8.0±0.5			2
MCHC-101011	10.5±0.3	10.5±0.3	11.0MAX	PIN(Ref)	3.0±0.5	6.0±0.3(REF)			3
MCHC-101010	10.5±0.3	10.5±0.3	10.0MAX	PIN(Ref)	3.4±0.5	6.1±0.3	4.6±0.3	7.7±0.3	4
MCHC-111110	11.5±0.3	11.5±0.3	10.0MAX	PIN(Ref)	3.4±0.5	6.0±0.3	6.7±0.3	9.0±0.3	4
MCHC-121310	12.5±0.3	13.5±0.3	10.0MAX	PIN(Ref)	3.4±0.5	7.3±0.3	7.0±0.3	10.0±0.3	5
MCHC-131510	13.5MAX	16.0MAX	11.0MAX	PIN(Ref)	3.0±0.5	10.0±0.3			2

Part Number Code

MCHC - 070707 - R80 M
 1 2 3 4

- 1、Product Code
- 2、Dimensions Code
- 3、Inductance = Decimal Point
- 4、Tolerance: L = $\pm 15\%$ 、M = $\pm 20\%$ 、N = $\pm 30\%$

Specification

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-070707-1R0M	1.0	3.3	4.5	12.0	21.0
MCHC-070707-1R5M	1.5	4.1	4.5	10.0	20.0
MCHC-070707-2R2M	2.2	4.8	6.0	9.0	14.0
MCHC-070707-2R8M	2.8	5.2	6.5	9.0	14.0
MCHC-070707-3R3M	3.3	7.0	7.5	9.5	14.0
MCHC-070707-4R7M	4.7	11.5	15.0	6.0	10.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-080808-1R0M	1.0	3.5	4.5	12.0	21.0
MCHC-080808-1R5M	1.5	3.8	5.0	10.0	19.0
MCHC-080808-2R2M	2.2	6.5	8.0	9.0	14.0
MCHC-080808-2R8M	2.8	7.5	10.0	8.0	13.0
MCHC-080808-4R7M	4.7	12.0	15.0	6.0	11.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-101210-R22M	0.22	0.4	0.5	31.0	43.0
MCHC-101210-R27M	0.27	0.4	0.5	31.0	43.0
MCHC-101210-R33M	0.33	0.4	0.5	31.0	43.0
MCHC-101210-R47M	0.47	0.6	0.8	30.0	40.0
MCHC-101210-R56M	0.56	0.6	0.8	30.0	40.0
MCHC-101210-R68M	0.68	0.8	1.0	30.0	40.0
MCHC-101210-1R0M	1.0	1.5	2.0	21.0	32.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Typical	Max
MCHC-101210-1R2M	1.2	1.5	2.0	21.0	32.0
MCHC-101210-1R5M	1.5	1.8	3.0	16.0	30.0
MCHC-101210-2R2M	2.2	2.1	3.5	13.0	26.0
MCHC-101210-3R3M	3.3	6.1	7.0	11.0	16.0
MCHC-101210-4R7M	4.7	6.0	7.0	10.0	13.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-101011-100M	10.0	14.0	16.0	5.0	9.0
MCHC-101011-150M	15.0	24.5	28.0	4.5	7.0
MCHC-101011-220M	22.0	27.5	32.0	4.0	6.0
MCHC-101011-330M	33.0	48.0	52.0	3.5	5.0
MCHC-101011-470M	47.0	77.0	80.0	2.0	3.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-101010-R36M	0.36	0.66	0.8	32.0	40.0
MCHC-101010-R47M	0.47	0.66	0.8	30.0	40.0
MCHC-101010-R60M	0.6	0.95	1.2	28.0	38.0
MCHC-101010-R68M	0.68	0.95	1.2	25.0	36.0
MCHC-101010-R80M	0.80	1.0	1.3	24.0	35.0
MCHC-101010-1R0M	1.0	1.5	1.8	20.0	30.0
MCHC-101010-2R2M	2.2	3.2	3.6	16.0	25.0
MCHC-101010-3R3M	3.3	5.3	6.0	11.0	16.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-111110-R56M	0.56	0.8	0.9	30.0	43.0
MCHC-111110-1R0M	1.0	1.5	2.0	21.0	32.0
MCHC-111110-1R2M	1.2	1.5	2.0	20.0	30.0
MCHC-111110-2R0M	2.0	2.75	3.2	15.0	26.0
MCHC-111110-3R3M	3.3	5.35	6.0	11.0	16.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-121310-R22M	0.22	0.35	0.45	30.0	43.0
MCHC-121310-R47M	0.47	0.50	0.60	30.0	43.0
MCHC-121310-R68M	0.68	0.75	0.90	30.0	40.0
MCHC-121310-R80M	0.80	0.82	1.00	30.0	40.0
MCHC-121310-1R0M	1.0	1.00	1.2	28.0	38.0
MCHC-121310-1R5M	1.5	1.15	1.4	25.0	30.0
MCHC-121310-2R2M	2.2	1.50	2.0	23.0	27.0
MCHC-121310-3R3M	3.3	2.70	3.2	20.0	25.0
MCHC-121310-4R7M	4.7	4.80	5.2	16.0	22.0
MCHC-121310-6R8M	6.8	6.10	6.5	15.0	20.0
MCHC-121310-100M	10.0	9.00	9.5	10.0	18.0

Part No.	Inductance (μ H)	DC Resistance (m Ω)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MCHC-131510-R47M	0.47	0.6	0.7	40.0	43.0
MCHC-131510-1R0M	1.0	0.9	1.0	30.0	40.0
MCHC-131510-1R5M	1.5	1.4	2.0	27.0	35.0
MCHC-131510-2R2M	2.2	1.6	2.0	20.0	35.0
MCHC-131510-3R3M	3.3	2.8	3.2	20.0	26.0
MCHC-131510-4R7M	4.7	4.8	5.2	18.0	24.0
MCHC-131510-6R8M	6.8	5.6	6.0	16.0	24.0
MCHC-131510-7R5M	7.5	7.2	7.5	14.0	20.0
MCHC-131510-100M	10.0	8.5	10.0	12.0	18.0
MCHC-131510-220M	22.0	20.5	22.0	8.0	9.0
MCHC-131510-330M	33.0	30.0	35.0	6.0	7.0
MCHC-131510-470M	47.0	35.0	39.0	5.5	6.0
MCHC-131510-680M	68.0	50.0	55.0	5.0	5.0
MCHC-131510-820M	82.0	55.0	60.0	4.5	4.5
MCHC-131510-101M	100.0	80.0	85.0	4.0	4.0