

Low Profile High Current Inductors

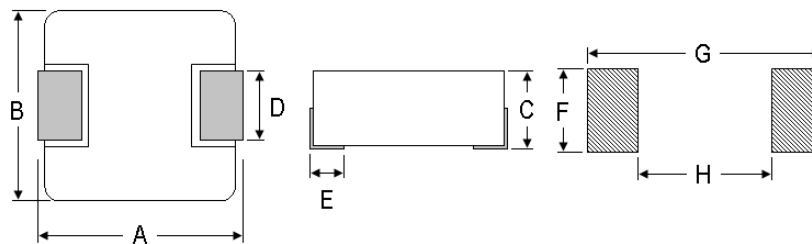
Application Field

- Notebook, desktop, and server applications.
- Low profile, high current power supplies.
- Battery powered devices.
- DC/DC converters in distributed power systems.
- DC/DC converters for field programmable gate array.

Directions

- Super low resistance, ultra high current rating.
- Low profile for machine placement.
- High performance (Isat) realized by metal dust core.
- Frequency range : up to 1MHz
- 100% lead (Pb)-free.

Dimensions and footprint (Unit : mm)



Unit : mm

Size	A	B	C	D	E	F	G	H
MFHC-02AZ	2.00±0.10	1.60±0.10	1.00 max	0.50±0.20	0.50±0.20	1.60	2.00	1.00
MFHC-04BZ	4.15±0.35	4.00±0.30	2.00 max	1.50±0.30	0.08±0.30	2.30	4.95	1.65
MFHC-04CZ	4.15±0.35	4.00±0.30	3.00 max	2.00±0.30	1.00±0.30	2.30	4.95	1.65
MFHC-06CE	6.60±0.30	7.00±0.30	3.50 max	3.00±0.30	1.60±0.50	3.50	7.60	3.70
MFHC-10CZ	11.00±0.50	10.00±0.50	3.00 max	3.00±0.50	2.00±0.50	4.00	12.00	5.50
MFHC-10DZ	11.00±0.50	10.00±0.50	4.00 max	3.00±0.50	2.00±0.50	4.00	12.00	5.50

Part Number Code

MFHC - 06CE - 6R8 M
 1 2 3 4

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

Specification

Part No.	Inductance (μH) ±20%@0A	DCR (mΩ)		Heat Rating Current IDC(A)	Saturation Current Isat(A)
		Typ.	Max		
MFHC-02AZ-R24M	0.24	19.0	25.0	5.4	4.5
MFHC-02AZ-1R0M	1.00	65.0	83.0	3.2	2.1
MFHC-02AZ-2R2M	2.20	160.0	181.0	2.1	1.3

Part No.	Inductance (μH) ±20%@0A	DCR (mΩ)		Heat Rating Current IDC(A)	Saturation Current Isat(A)
		Typ.	Max		
MFHC-04BZ-R10M	0.10	3.5	4.0	12.0	22.0
MFHC-04BZ-R22M	0.22	6.0	6.6	9.0	12.5
MFHC-04BZ-R47M	0.47	12.5	14.0	7.0	9.5
MFHC-04BZ-1R0M	1.00	24.0	27.0	4.5	7.0
MFHC-04BZ-1R5M	1.50	38.0	46.0	4.0	6.0
MFHC-04BZ-2R2M	2.20	52.0	28.0	3.0	5.0
MFHC-04BZ-3R3M	3.30	74.0	87.0	2.5	4.0

Part No.	Inductance (μH) ±20%@0A	DCR (mΩ)		Heat Rating Current IDC(A)	Saturation Current Isat(A)
		Typ.	Max		
MFHC-04CZ-R68M	0.68	11.0	12.0	8.5	14.0
MFHC-04CZ-1R0M	1.00	13.0	14.0	7.0	11.0
MFHC-04CZ-1R2M	1.20	15.0	16.0	7.0	9.5
MFHC-04CZ-1R5M	1.50	20.0	25.0	6.0	10.0
MFHC-04CZ-2R2M	2.20	29.0	35.0	5.5	9.0
MFHC-04CZ-3R3M	3.30	32.0	38.0	5.0	7.0
MFHC-04CZ-4R7M	4.70	50.0	60.0	3.0	5.0

Part No.	Inductance (μ H) $\pm 20\%$ @0A	DCR (m Ω)		Heat Rating Current IDC(A)	Saturation Current Isat(A)
		Typ.	Max		
MFHC-06CE-R10M	0.10	1.5	1.7	32.5	60.0
MFHC-06CE-R15M	0.15	1.9	2.5	26.0	52.0
MFHC-06CE-R20M	0.20	2.4	3.0	24.0	41.0
MFHC-06CE-R22M	0.22	2.5	2.8	23.0	40.0
MFHC-06CE-R33M	0.33	3.9	0.75	20.0	30.0
MFHC-06CE-R47M	0.47	4.0	4.2	17.5	26
MFHC-06CE-R68M	0.68	5.0	5.5	15.5	25
MFHC-06CE-R82M	0.82	6.7	8.0	13.0	24.0
MFHC-06CE-1R0M	1.0	9.0	10.0	11.0	22.0
MFHC-06CE-1R5M	1.5	14.0	15.0	9.0	18.0
MFHC-06CE-2R2M	2.2	18.0	20.0	8.0	14.0
MFHC-06CE-3R3M	3.3	28.0	30.0	6.0	13.5
MFHC-06CE-4R7M	4.7	37.0	40.0	5.5	10.0
MFHC-06CE-6R8M	6.8	54.0	60.0	4.5	8.0
MFHC-06CE-8R2M	8.2	64.0	68.0	4.0	7.5
MFHC-06CE-100M	10.0	102.0	105.0	3.0	7.0

Part No.	Inductance (μ H) $\pm 20\%$ @0A	DCR (m Ω)		Heat Rating Current IDC(A)	Saturation Current Isat(A)
		Typ.	Max		
MFHC-10CZ-R12M	0.12	0.65	0.75	30.0	75.0
MFHC-10CZ-R36M	0.36	1.3	1.6	23.0	28.0
MFHC-10CZ-R47M	0.47	2.1	2.5	23.0	26.0
MFHC-10CZ-R56M	0.56	2.4	3.0	22.0	24.0
MFHC-10CZ-R68M	0.68	2.9	3.4	21.0	23.0
MFHC-10CZ-1R0M	1.0	5.3	6.0	13.0	18.0
MFHC-10CZ-1R5M	1.5	6.5	7.5	13.0	20.0
MFHC-10CZ-2R2M	2.2	8.0	9.0	13.0	16.0
MFHC-10CZ-3R3M	3.3	14.5	16.0	9.0	14.0
MFHC-10CZ-4R7M	4.7	20.5	22.5	7.0	13.0
MFHC-10CZ-8R2M	8.2	35.0	45.0	5.0	8.5
MFHC-10CZ-100M	10.0	50.0	55.0	5.0	7.5

Part No.	Inductance (μ H) \pm 20%@0A	DCR (m Ω)		Heat Rating Current IDC(A)	Saturation Current Isat(A)
		Typ.	Max		
MFHC-10DZ-R15M	0.15	0.5	0.65	40.0	75.0
MFHC-10DZ-R22M	0.22	0.9	1.0	35.0	60.0
MFHC-10DZ-R36M	0.36	1.05	1.2	30.0	50.0
MFHC-10DZ-R39M	0.39	1.1	1.2	31.0	45.0
MFHC-10DZ-R45M	0.45	1.1	1.3	25.0	27.0
MFHC-10DZ-R47M	0.47	1.53	1.68	25.0	33.0
MFHC-10DZ-R56M	0.56	1.6	1.8	23.0	30.0
MFHC-10DZ-R68M	0.68	2.1	2.4	13.0	24.0
MFHC-10DZ-1R0M	1.0	3.0	3.3	18.0	28.0
MFHC-10DZ-1R5M	1.5	3.8	4.2	16.0	32.0
MFHC-10DZ-1R8M	1.8	4.5	5.0	15.0	15.0
MFHC-10DZ-2R0M	2.0	5.2	5.8	14.0	14.0
MFHC-10DZ-2R2M	2.2	6.0	7.0	12.0	18.0
MFHC-10DZ-3R3M	3.3	10.8	11.8	10.0	16.0
MFHC-10DZ-4R7M	4.7	17.0	20.0	8.5	15.0
MFHC-10DZ-5R6M	5.6	20.0	23.0	8.0	14.0
MFHC-10DZ-6R8M	6.8	22.5	25.0	7.0	12.0
MFHC-10DZ-8R2M	8.2	25.0	27.0	6.0	9.0
MFHC-10DZ-100M	10.0	27.0	30.0	7.5	8.5
MFHC-10DZ-150M	15.0	40.0	45.0	6.25	7.0
MFHC-10DZ-220M	22.0	60.0	66.0	5.0	5.5
MFHC-10DZ-330M	33.0	85.0	92.0	4.4	5.0
MFHC-10DZ-470M	47.0	130.0	145.0	3.3	3.3
MFHC-10DZ-680M	68.0	68.0	178.0	2.3	3.0