

Ultra High Current Power Inductor

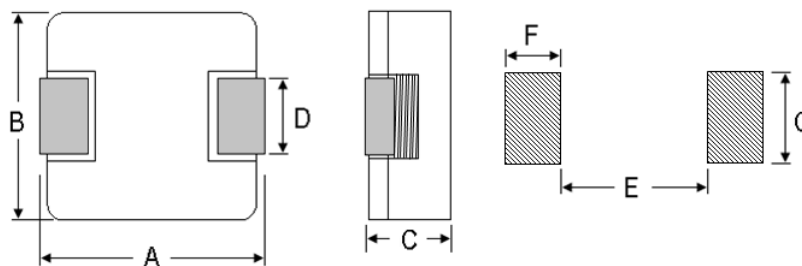
Application Field

- 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)



Unit : mm

Size	A	B	C	D	E	F	G
MFMP-0703	6.9±0.3	6.9±0.3	3.0±0.3	1.2±0.3	2.4	2.7	2.2
MFMP-0704	6.9±0.3	6.9±0.3	3.8±0.3	1.2±0.3	2.4	2.7	2.2
MFMP-0705	6.9±0.3	6.9±0.3	4.8±0.3	1.2±0.3	2.4	2.7	2.2
MFMP-1003	10.6±0.5	10.6±0.3	2.8±0.3	2.0±0.5	3.9	3.8	3.5
MFMP-1004	10.5±0.5	10.2±0.5	4.0±0.2	3.0+1.0/-0.5	3.9	3.8	3.5
MFMP-1005	10.5±1.0	10.2±0.5	4.7±0.3	2.2±0.5	3.9	3.8	3.5
MFMP-1303	12.9±0.5	12.8±0.5	3.3+0.2/-0.3	2.4±0.5	6.3	3.8	5.0
MFMP-1305	13.0±1.0	12.8±0.5	4.7±0.3	2.5±0.5	6.0	4.5	5.0
MFMP-1306	13.0±1.0	12.8±0.5	6.2±0.3	2.5±0.5	6.0	4.5	5.0
MFMP-1809	18.3±1.0	18.2±0.5	8.9±0.3	4.2±0.5	7.3	6.0	6.0

Part Number Code

MFMP - 0703 R13 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)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-0703-R13	0.13	0.91	1.18	22.00	48.00
MFMP-0703-R24	0.24	1.80	2.34	18.00	40.00
MFMP-0703-R52	0.52	3.70	4.81	14.00	20.00
MFMP-0703-R95	0.95	6.20	8.06	11.00	13.00
MFMP-0703-1R2	1.20	8.60	11.18	8.50	13.00
MFMP-0703-1R5	1.50	12.70	16.51	7.50	12.00
MFMP-0703-2R0	2.00	14.20	18.46	6.50	9.00

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-0704-R22	0.22	1.10	1.43	21.00	32.00
MFMP-0704-R40	0.40	1.85	2.41	19.00	25.00
MFMP-0704-R68	0.68	3.10	4.03	17.00	20.00
MFMP-0704-1R0	1.00	4.60	5.98	15.00	19.00
MFMP-0704-1R5	1.50	6.60	8.58	11.00	14.00
MFMP-0704-2R2	2.20	11.40	14.82	9.00	13.00
MFMP-0704-3R3	3.30	17.20	22.36	6.50	11.00
MFMP-0704-4R7	4.70	19.50	25.35	6.00	7.00

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-0705-R24	0.24	1.00	1.30	20.00	28.00
MFMP-0705-R47	0.47	1.35	1.76	18.00	20.00

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-0705-R76	0.76	2.25	2.93	15.50	15.00
MFMP-0705-1R1	1.10	3.15	4.10	15.00	13.00
MFMP-0705-1R5	1.50	4.30	5.59	13.00	11.00
MFMP-0705-2R0	2.00	5.85	7.61	11.50	9.00
MFMP-0705-3R3	3.30	9.00	11.70	9.00	8.00
MFMP-0705-4R9	4.90	14.50	18.85	6.50	6.50
MFMP-0705-6R5	6.50	21.50	27.95	6.00	6.00
MFMP-0705-7R6	7.60	28.20	36.66	4.20	4.80
MFMP-0705-8R5	8.50	30.50	39.65	4.00	4.50
MFMP-0705-100	10.00	33.00	42.90	3.50	4.00

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-1003-R20	0.20	0.82	1.07	22.00	50.00
MFMP-1003-R33	0.33	2.17	2.82	18.00	36.00
MFMP-1003-R56	0.56	2.17	2.82	18.00	33.00
MFMP-1003-R68	0.68	4.79	6.23	14.00	21.00
MFMP-1003-1R0	1.00	4.79	6.23	14.00	21.00
MFMP-1003-1R2	1.20	6.60	8.58	12.00	15.00
MFMP-1003-1R5	1.50	6.60	8.58	12.00	18.00

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-1004-R15	0.15	0.58	0.75	25.00	60.00
MFMP-1004-R30	0.30	1.10	1.43	22.00	35.00
MFMP-1004-R56	0.56	1.61	2.09	20.00	30.00
MFMP-1004-1R0	1.00	3.30	4.29	16.00	20.00
MFMP-1004-1R5	1.50	5.30	6.89	14.00	17.00
MFMP-1004-2R0	2.00	7.30	9.49	11.00	13.00
MFMP-1004-2R8	2.80	10.60	13.78	9.50	11.00
MFMP-1004-4R3	4.30	14.10	18.33	8.00	8.00
MFMP-1004-5R6	5.60	20.60	26.78	6.70	7.50

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-1005-R16	0.16	0.51	0.67	25.00	58.00
MFMP-1005-R72	0.72	1.30	1.69	22.00	35.00
MFMP-1005-1R2	1.20	1.80	2.34	20.00	25.00
MFMP-1005-1R8	1.80	3.50	4.55	16.00	18.00
MFMP-1005-2R4	2.40	4.75	6.18	14.00	17.00
MFMP-1005-3R3	3.30	5.90	7.67	12.00	15.00
MFMP-1005-4R2	4.20	7.10	9.23	11.00	14.00
MFMP-1005-5R5	5.50	10.30	13.40	10.00	12.00
MFMP-1005-6R5	6.50	12.50	16.25	8.40	10.00
MFMP-1005-7R8	7.80	13.50	17.55	8.00	9.50
MFMP-1005-100	10.00	16.30	21.19	7.20	8.50
MFMP-1005-160	16.00	34.50	44.85	5.00	6.50

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-1303-R25	0.25	0.75	9.75	24.00	60.00
MFMP-1303-R68	0.68	1.58	2.05	22.00	40.00
MFMP-1303-1R2	1.20	2.85	3.71	17.00	28.00
MFMP-1303-1R8	1.80	5.60	7.28	14.00	22.00
MFMP-1303-2R2	2.20	5.70	7.41	14.00	18.00
MFMP-1303-3R3	3.30	8.10	10.53	12.00	14.00

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-1305-R19	0.19	0.50	0.65	29.00	60.00
MFMP-1305-R47	0.47	0.90	1.17	26.00	50.00
MFMP-1305-R90	0.90	1.60	0.78	24.00	28.00
MFMP-1305-1R4	1.40	2.40	3.12	22.00	26.00
MFMP-1305-2R3	2.30	3.70	4.81	17.50	17.00
MFMP-1305-3R2	3.20	5.30	6.89	16.00	15.00
MFMP-1305-4R8	4.80	10.50	13.65	11.00	13.00
MFMP-1305-6R0	6.00	13.50	17.55	9.50	11.50
MFMP-1305-8R2	8.20	11.60	15.08	10.00	11.00
MFMP-1305-100	10.00	14.10	18.33	8.50	10.00

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-1306-R20	0.20	0.35	0.46	32.00	65.00
MFMP-1306-R47	0.47	0.67	0.88	30.00	50.00
MFMP-1306-R82	0.82	0.90	1.17	27.00	35.00
MFMP-1306-1R3	1.30	1.80	2.34	25.00	25.00
MFMP-1306-2R0	2.00	2.60	3.38	23.00	22.00
MFMP-1306-2R8	2.80	3.30	4.29	20.00	17.50
MFMP-1306-3R7	3.70	4.90	6.37	17.00	16.00
MFMP-1306-4R7	4.70	7.00	9.10	13.00	15.00
MFMP-1306-6R0	6.00	8.40	10.92	12.00	14.00
MFMP-1306-7R3	7.30	5.90	7.67	13.00	12.00
MFMP-1306-9R2	9.20	7.80	49.14	12.00	10.50
MFMP-1306-110	11.00	9.10	11.83	11.00	9.50
MFMP-1306-130	13.00	11.20	14.56	10.00	9.00
MFMP-1306-150	15.00	14.80	18.95	9.00	8.00
MFMP-1306-180	18.00	22.00	28.60	7.50	7.50
MFMP-1306-220	22.00	24.70	32.11	6.00	6.50
MFMP-1306-330	33.00	30.50	33.56	5.50	5.50

Part No.	Inductance (μH)	DC Resistance (mΩ)		Rated Current	
		Typical	Max	Lrms (Amp)	L sat (Amp)
MFMP-1809-R82	0.82	0.54	0.60	41.50	65.00
MFMP-1809-1R3	1.30	0.94	1.04	34.50	62.00
MFMP-1809-1R9	1.90	1.20	1.56	32.50	52.00
MFMP-1809-2R6	2.60	1.58	2.05	31.50	50.00
MFMP-1809-3R5	3.50	3.10	4.03	22.50	37.00
MFMP-1809-4R5	4.50	3.40	4.42	20.50	37.00
MFMP-1809-5R6	5.60	3.70	4.81	19.00	33.00
MFMP-1809-6R8	6.80	4.10	5.33	18.50	27.00
MFMP-1809-100	10.00	6.90	8.97	15.00	21.50