

MHT Series

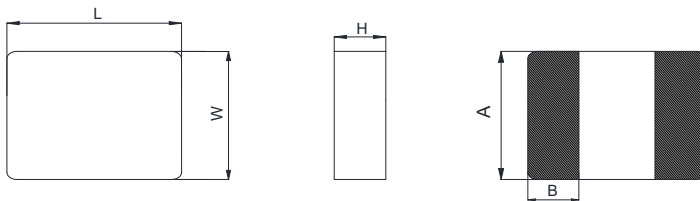
Molding Power Inductors

Product Outline

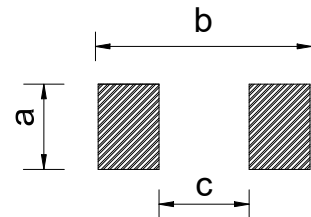
- Alloy powder DC-DC Converter shielded inductors Molding Types.
- A wide range of product line up is available to meet the various requirements.
- High saturation current, low DCR, high efficiency.
- Very low acoustic noise and very low leakage flux noise.
- Ideally used in MOBILE, flat TV, LCD display, AV devices, car navigation, LED lighting, smart screen, power modules.



Dimensions(mm)



Recommended Patterns



Type	L	W	H	A	B	a	b	c	Packaging (pcs/reel)
MHT5012S	5.2±0.2	5.0±0.2	1.20 Max	5.3	1.6±0.2	5.3	5.5	1.6	3000
MHT5020S	5.2±0.2	5.0±0.2	2.00 Max	5.3	1.6±0.2	5.3	5.5	1.6	2000
MHT5030S	5.2±0.2	5.0±0.2	3.00 Max	5.3	1.6±0.2	5.3	5.5	1.6	2000
MHT5040S	5.2±0.2	5.0±0.2	4.00 Max	5.3	1.6±0.2	5.3	5.5	1.6	1500
MHT5050S	5.2±0.2	5.0±0.2	5.00 Max	5.3	1.6±0.2	5.3	5.5	1.6	1000
MHT6030S	6.2±0.2	6.0±0.2	3.00 Max	6.3	1.8±0.2	6.3	6.5	2.0	1000
MHT6040S	6.2±0.2	6.0±0.2	4.00 Max	6.3	1.8±0.2	6.3	6.5	2.0	1000
MHT6050S	6.2±0.2	6.0±0.2	5.00 Max	6.3	1.8±0.2	6.3	6.5	2.0	800
MHT6060S	6.2±0.2	6.0±0.2	6.00 Max	6.3	1.8±0.2	6.3	6.5	2.0	600
MHT6420S	6.4±0.2	6.6±0.2	2.00 Max	7.0	2.0±0.3	7.0	6.8	2.0	2000
MHT6422S	6.4±0.2	6.6±0.2	2.20 Max	7.0	2.0±0.3	7.0	6.8	2.0	2000
MHT6424S	6.4±0.2	6.6±0.2	2.40 Max	7.0	2.0±0.3	7.0	6.8	2.0	1500
MHT6430S	6.4±0.2	6.6±0.2	3.00 Max	7.0	2.0±0.3	7.0	6.8	2.0	1000
MHT6440S	6.4±0.2	6.6±0.2	4.00 Max	7.0	2.0±0.3	7.0	6.8	2.0	1000
MHT6450S	6.4±0.2	6.6±0.2	5.00 Max	7.0	2.0±0.3	7.0	6.8	2.0	800
MHT7015S	7.2±0.2	7.0±0.2	1.50 Max	7.3	2.3±0.2	7.3	7.5	2.4	2000
MHT7020S	7.2±0.2	7.0±0.2	2.00 Max	7.3	2.3±0.2	7.3	7.5	2.4	1500
MHT7030S	7.2±0.2	7.0±0.2	3.00 Max	7.3	2.3±0.2	7.3	7.5	2.4	1000
MHT7040S	7.2±0.2	7.0±0.2	4.00 Max	7.3	2.3±0.2	7.3	7.5	2.4	1000
MHT7050S	7.2±0.2	7.0±0.2	5.00 Max	7.3	2.3±0.2	7.3	7.5	2.4	1000
MHT7060S	7.2±0.2	7.0±0.2	6.00 Max	7.3	2.3±0.2	7.3	7.5	2.4	800
MHT8020S	8.2±0.2	8.0±0.2	2.00 Max	8.3	2.7±0.2	8.3	8.5	2.6	1500
MHT8022S	8.2±0.2	8.0±0.2	2.20 Max	8.3	2.7±0.2	8.3	8.5	2.6	1500
MHT8030S	8.2±0.2	8.0±0.2	3.00 Max	8.3	2.7±0.2	8.3	8.5	2.6	1000
MHT8040S	8.2±0.2	8.0±0.2	4.00 Max	8.3	2.7±0.2	8.3	8.5	2.6	1000
MHT8050S	8.2±0.2	8.0±0.2	5.00 Max	8.3	2.7±0.2	8.3	8.5	2.6	800
MHT8054S	8.2±0.2	8.0±0.2	5.40 Max	8.3	2.7±0.2	8.3	8.5	2.6	800
MHT8070S	8.2±0.2	8.0±0.2	7.00 Max	8.3	2.7±0.2	8.3	8.5	2.6	500
MHT9060S	9.2±0.2	9.0±0.2	6.00 Max	9.3	2.9±0.2	9.3	9.5	2.9	500
MHT9080S	9.2±0.2	9.0±0.2	8.00 Max	9.3	2.9±0.2	9.3	9.5	2.9	400
MHT1030S	10.2±0.2	10.0±0.2	3.00 Max	10.3	3.3±0.2	10.3	10.5	3.2	1000
MHT1040S	10.2±0.2	10.0±0.2	4.00 Max	10.3	3.3±0.2	10.3	10.5	3.2	500
MHT1050S	10.2±0.2	10.0±0.2	5.00 Max	10.3	3.3±0.2	10.3	10.5	3.2	500
MHT1230S	12.2±0.2	12.0±0.2	3.00 Max	12.3	3.8±0.2	12.3	12.5	3.6	500
MHT1240S	12.2±0.2	12.0±0.2	4.00 Max	12.3	3.8±0.2	12.3	12.5	3.6	500
MHT1250S	12.2±0.2	12.0±0.2	5.00 Max	12.3	3.8±0.2	12.3	12.5	3.6	500
MHT1260S	12.2±0.2	12.0±0.2	6.00 Max	12.3	3.8±0.2	12.3	12.5	3.6	500
MHT1265S	12.2±0.2	12.0±0.2	6.50 Max	12.3	3.8±0.2	12.3	12.5	3.6	500

Dimensions without tolerance are typical.

All specifications are subject to change without notice.

Product Identification

MHT **5030** **S** - **4R7** **M** **C** **S**
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Product Series No.
- ② Dimension symbol: 5.0x3.0mm (LxH)
- ③ Internal control code.
- ④ Inductance value: 100=10×10⁰ uH=10uH 4R7=4.7uH
- ⑤ Tolerance: K=±10%, M=±20%, N=±30%, P=±35%
- ⑥ Packing Style: T=Taping, B=Bulk.
- ⑦ Characteristic parameter level.

MHT5012S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT5012S-R10MCS	0.10	±20%	2.5	30	35	20	22
MHT5012S-R15MCS	0.15	±20%	5.0	26	30	15	17
MHT5012S-R47MCS	0.47	±20%	8.0	13.5	15	12	13
MHT5012S-1R0MCS	1.00	±20%	18	8.5	9.5	7.5	8.5

MHT5020S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT5020S-R33MCS	0.33	±20%	3.7	21	24	17	20
MHT5020S-R68MCS	0.68	±20%	5.5	17	20	14	15
MHT5020S-1R0MCS	1.0	±20%	8.4	14	16	13	14
MHT5020S-1R5MCS	1.5	±20%	17	10	12	10	13
MHT5020S-2R2MCS	2.2	±20%	29	8.5	10	6.5	7.2
MHT5020S-3R3MCS	3.3	±20%	43	8.0	9.5	6.0	7.0

MHT5030S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT5030S-R13MCS	0.13	±20%	1.5	47	52	33	38
MHT5030S-R15MCS	0.15	±20%	1.45	41	43	24	25
MHT5030S-R16MCS	0.16	±20%	1.5	40	42	23	24
MHT5030S-R22MCS	0.22	±20%	1.65	34	36	21	22.4
MHT5030S-R30MCS	0.30	±20%	1.8	27	29	20	22
MHT5030S-R33MCS	0.33	±20%	2.0	26	28	19	21.3
MHT5030S-R47MCS	0.47	±20%	3.0	23	26	18	21
MHT5030S-R56MCS	0.56	±20%	3.6	21	24	18	20
MHT5030S-R68MCS	0.68	±20%	4.6	18.5	21	16	19
MHT5030S-1R0MCS	1.0	±20%	7.6	16.5	19	10	12.2
MHT5030S-1R2MCS	1.2	±20%	9.0	13.5	15	9.5	11.5
MHT5030S-2R2MCS	2.2	±20%	14	10	12	9.0	10
MHT5030S-3R3MCS	3.3	±20%	27	9.0	10	8.0	9.0
MHT5030S-4R7MCS	4.7	±20%	32	8.0	9.0	6.0	7.0
MHT5030S-6R8MCS	6.8	±20%	40	7.0	8.0	5.0	6.0
MHT5030S-100MCS	10.0	±20%	68	4.5	5.5	4.5	5.0

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MHT5040S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT5040S-1R0MCS	1.0	±20%	5.5	16	18	15	17
MHT5040S-2R2MCS	2.2	±20%	10.5	11.5	12.5	9.0	11.0
MHT5040S-4R7MCS	4.7	±20%	36	7.5	8.5	5.5	7.2
MHT5040S-6R8MCS	6.8	±20%	44	7.0	7.2	5.0	7.0
MHT5040S-100MCS	10.0	±20%	52	5.7	6.5	4.5	5.5
MHT5040S-220MCS	22.0	±20%	115	4.0	4.6	2.5	3.3

MHT5050S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT5050S-R68MCS	0.68	±20%	3.8	24	28	20	22
MHT5050S-6R8MCS	6.80	±20%	30	8.0	10	6.0	7.5

MHT6030S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6030S-R15MCS	0.15	±20%	1.35	48	55	29	32
MHT6030S-R22MCS	0.22	±20%	1.7	42	46	23	25
MHT6030S-R33MCS	0.33	±20%	2.2	33	36	16	18
MHT6030S-R56MCS	0.56	±20%	2.9	25	28	14	16
MHT6030S-R68MCS	0.68	±20%	4.5	24	27	13	15.5
MHT6030S-1R5MCS	1.5	±20%	7.8	15	18	12	15
MHT6030S-2R2MCS	2.2	±20%	11	12.5	15.0	10	12
MHT6030S-3R3MCS	3.3	±20%	18	11	13.5	7.5	9.0
MHT6030S-4R7MCS	4.7	±20%	19	9.5	11	7.0	8.3
MHT6030S-5R6MCS	5.6	±20%	24	8.0	10	5.3	6.2
MHT6030S-100MCS	10	±20%	58	5.5	6.3	3.7	4.3

MHT6040S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6040S-R15MCS	0.15	±20%	1.32	60	65	30	35
MHT6040S-1R0MCS	1.0	±20%	5.8	18	20	15	18
MHT6040S-2R2MCS	2.2	±20%	7.0	15	13.4	14	16
MHT6040S-4R7MCS	4.7	±20%	18	8.5	10.5	8.0	9.5
MHT6040S-100MCS	10	±20%	42	7.5	9.0	5.3	6.2

MHT6050S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6050S-1R5MCS	1.5	±20%	6.3	19	21	16	18
MHT6050S-2R2MCS	2.2	±20%	7.0	16	19	14	16
MHT6050S-3R3MCS	3.3	±20%	8.0	12	14	12	13
MHT6050S-4R7MCS	4.7	±20%	10.5	10	12	11	12.5
MHT6050S-8R2MCS	8.2	±20%	23	7.0	7.5	8.0	10

① Inductance tested at 1MHz/1.0 Vrms using an Agilent/HP 4284A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Isat: The DC current at which the inductance decreases by 30% of it's initial value.

④ Irms: The DC current at which $\Delta t=40^{\circ}\text{C}$.

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MHT6060S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6060S-1R0MCS	1.0	±20%	3.1	26	29	18	21
MHT6060S-1R5MCS	1.5	±20%	4.2	21	25	15	18
MHT6060S-2R2MCS	2.2	±20%	5.4	17	20	13	14.5
MHT6060S-3R3MCS	3.3	±20%	8.4	13	14	12	13
MHT6060S-4R7MCS	4.7	±20%	10.8	11.5	13	11.5	12.8
MHT6060S-6R8MCS	6.8	±20%	19	11	13	9.5	11.0
MHT6060S-100MCS	10.0	±20%	21	9.0	11.0	7.3	8.5
MHT6060S-150MCS	15.0	±20%	43.5	5.0	5.8	4.5	6.0
MHT6060S-220MCS	22.0	±20%	60	4.8	5.6	3.8	5.0

MHT6420/22/24S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6420S-R15MCS	0.15	±20%	1.3	39	43	32	37
MHT6422S-3R3MCS	3.3	±20%	21	10	12	10	11
MHT6424S-R15MCS	0.15	±20%	1.20	46	51	37	40
MHT6424S-R22MCS	0.22	±20%	1.45	32	35	31.5	35
MHT6424S-R33MCS	0.33	±20%	2.70	32	35	23	25

MHT6430S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6430S-R12MCS	0.12	±20%	0.82	63	69	39	42
MHT6430S-R15MCS	0.15	±20%	0.85	56	63	38	41
MHT6430S-R18MCS	0.18	±20%	1.20	50	55	33	36
MHT6430S-R33MCS	0.33	±20%	2.0	38	43	29	32
MHT6430S-1R0MCS	1.0	±20%	6.0	22	24	13	15
MHT6430S-1R5MCS	1.5	±20%	7.5	16	18	12.5	14.5
MHT6430S-2R2MCS	2.2	±20%	12	13.5	16	12	14
MHT6430S-4R7MCS	4.7	±20%	23	9.5	12	8.5	10
MHT6430S-6R8MCS	6.8	±20%	32	8.0	11	7.5	8.5

MHT6440S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6440S-R12MCS	0.12	±20%	0.75	77	81	42	45
MHT6440S-R30MCS	0.30	±20%	1.54	40	45	33	36

MHT6450S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT6450S-2R2MCS	2.2	±20%	7.0	17	20	15.5	17
MHT6450S-6R8MCS	6.8	±20%	18	7.5	8.5	8.5	9.5
MHT6450S-100MCS	10.0	±20%	32	5.8	6.7	6.5	7.5

① Inductance tested at 1MHz/1.0 Vrms using an Agilent/HP 4284A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Isat: The DC current at which the inductance decreases by 30% of it's initial value.

④ Irms: The DC current at which $\Delta t=40^{\circ}\text{C}$.

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MHT7015/20S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT7015S-R68MCS	0.68	±20%	10.5	11.5	13	10	11
MHT7015S-2R2MCS	2.2	±20%	36	6.3	6.8	5.0	5.5
MHT7015S-100MCS	10.0	±20%	145	3.5	3.8	2.5	3.0
MHT7020S-1R5MCS	1.5	±20%	12	15	16	10	11
MHT7020S-2R2MCS	2.2	±20%	15	10.5	12	9	10

MHT7030S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT7030S-R24MCS	0.24	±20%	1.3	46	49	31	35
MHT7030S-R47MCS	0.47	±20%	3.2	31	33	27	28
MHT7030S-R68MCS	0.68	±20%	4.0	26	28	23	24
MHT7030S-1R0MCS	1.0	±20%	4.5	21	26	17	20
MHT7030S-1R5MCS	1.5	±20%	8.3	19	22	12	15
MHT7030S-2R2MCS	2.2	±20%	13	18	21	10	13
MHT7030S-3R3MCS	3.3	±20%	15	12	14	9.5	12
MHT7030S-4R7MCS	4.7	±20%	19	9.5	12	8.5	10
MHT7030S-5R6MCS	5.6	±20%	26	9.0	10.5	8.0	9.0
MHT7030S-8R2MCS	8.2	±20%	40	7.0	8.5	5.5	6.5
MHT7030S-100MCS	10	±20%	45	6.5	8.0	5.0	6.0
MHT7030S-220MCS	22	±20%	120	4.5	5.5	3.3	3.8

MHT7040S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT7040S-R22MCS	0.22	±20%	1.05	45	50	28	32
MHT7040S-4R7MCS	4.7	±20%	16.5	13.5	14.5	8.0	9.0

MHT7050S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT7050S-1R0MCS	1.0	±20%	3.2	29	32	19	20
MHT7050S-2R2MCS	2.2	±20%	6.6	23	26	17	19
MHT7050S-3R3MCS	3.3	±20%	10.0	16	18.5	13	15
MHT7050S-4R7MCS	4.7	±20%	12.5	14.5	17	12	13
MHT7050S-100 MCS	10	±20%	26	9.0	11	8.0	9.0
MHT7050S-220MCS	22	±20%	60.5	6.5	7.5	4.5	5.0
MHT7050S-330MCS	33	±20%	99	5.5	6.5	3.5	4.0
MHT7050S-470MCS	47	±20%	140	4.5	5.3	3.0	3.3

MHT7060S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT7060S-1R5MCS	1.5	±20%	3.8	25	28	20	23
MHT7060S-2R2MCS	2.2	±20%	6.0	24	27	17	19
MHT7060S-4R7MCS	4.7	±20%	10.5	16	18	12	13
MHT7060S-6R8MCS	6.8	±20%	17	13	15	8	9.5
MHT7060S-100MCS	10.0	±20%	28	10.5	12.5	7.5	8.5

MHT8020/22/30S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT8020S-2R2MCS	2.2	±20%	12	11	13	11	12.5
MHT8020S-3R3MCS	3.3	±20%	21	9.5	11.5	8.5	10
MHT8022S-2R2MCS	2.2	±20%	10.8	13	14	13	14
MHT8030S-2R2MCS	2.2	±20%	8.0	18	21	14	15

MHT8040/50S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT8040S-1R0MCS	1.0	±20%	3.2	32	35	24	26
MHT8040S-1R5MCS	1.5	±20%	4.8	30	33	22	24
MHT8040S-2R2MCS	2.2	±20%	6.0	21	23	20	22
MHT8040S-4R7MCS	4.7	±20%	12	15	18	11.5	13
MHT8040S-100MCS	10	±20%	30	10	13	8	10
MHT8040S-150MCS	15	±20%	50	8	10	6	8
MHT8050S-220MCS	22	±20%	50	7.5	9.0	6.5	7.5

MHT8054S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT8054S-1R0MCS	1.0	±20%	2.2	35	45	32	36
MHT8054S-2R2MCS	2.2	±20%	4.7	25	30	17	20
MHT8054S-4R7MCS	4.7	±20%	8.5	17	20	14	17
MHT8054S-6R8MCS	6.8	±20%	15	14	17	12	14
MHT8054S-100MCS	10.0	±20%	22	10	13	10	11.5
MHT8054S-220MCS	22.0	±20%	47	8.5	10	6.8	7.8

MHT8070S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT8070S-100MCS	10.0	±20%	18.5	13	16	11	12

MHT9060/80S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT9060S-100MCS	10.0	±20%	13	11.5	13	9	10
MHT9080S-100MCS	10.0	±20%	10	13	15	13	14.5

MHT1030S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT1030S-2R2MCS	2.2	±20%	7.0	18	20	16	18
MHT1030S-3R3MCS	3.3	±20%	12	15	16	15	16
MHT1030S-4R7MCS	4.7	±20%	18	13	14	12	13
MHT1030S-6R8MCS	6.8	±20%	25	10	11	10	11
MHT1030S-100MCS	10.0	±20%	38	9.0	10	7.0	8.0

MHT1040S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT1040S-R47MCS	0.47	±20%	1.3	40	42	30	32
MHT1040S-1R0MCS	1.0	±20%	3.0	30	32	24	26
MHT1040S-2R2MCS	2.2	±20%	6.0	23	25	16	17
MHT1040S-3R3MCS	3.3	±20%	7.8	19	21	15	16
MHT1040S-4R7MCS	4.7	±20%	12.5	17	19	13	14
MHT1040S-6R8MCS	6.8	±20%	16	14	15	11	12
MHT1040S-100MCS	10.0	±20%	19.5	10	13	9	11
MHT1040S-220MCS	22.0	±20%	51	5.5	6.5	5.5	6.5

MHT1050S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT1050S-1R0MCS	1.0	±20%	2.2	32	34	26	28
MHT1050S-1R5MCS	1.5	±20%	3.0	27	29	25.5	24
MHT1050S-2R2MCS	2.2	±20%	4.2	22	24	25	22
MHT1050S-3R3MCS	3.3	±20%	6.5	18	20	17	18
MHT1050S-4R7MCS	4.7	±20%	8.0	15	17	15	16
MHT1050S-100MCS	10.0	±20%	17	10	12	11	12
MHT1050S-220MCS	22.0	±20%	38	6.9	7.8	7.5	9.0

MHT1230S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT1230S-1R0MCS	1.0	±20%	3.0	32	35	24	28
MHT1230S-1R5MCS	1.5	±20%	4.2	28	32	21	24
MHT1230S-2R2MCS	2.2	±20%	5.5	25	28	18	20

MHT1240/50/60/65S Electrical Characteristics

Part Number	Inductance (uH) ①	Inductance Tolerance	DCR ② (mΩ) max.	Isat ③ (A) Max.	Isat ③ (A) Typ.	Irms ④ (A) Max.	Irms ④ (A) Typ.
MHT1240S-6R8MCS	6.8	±20%	10.0	16	20	13	15
MHT1250S-4R7MCS	4.7	±20%	5.0	22	25	22	26
MHT1260S-100MCS	10.0	±20%	12	13	15	13	15
MHT1260S-220MCS	22.0	±20%	25	10	12	12	14
MHT1265S-3R3MCS	3.3	±20%	4.5	30	33	18	20

① Inductance tested at 1MHz/1.0 Vrms using an Agilent/HP 4284A or equivalent.

② DCR measured on a micro-ohmmeter.

③ Isat: The DC current at which the inductance decreases by 30% of it's initial value.

④ Irms: The DC current at which $\Delta t=40^{\circ}\text{C}$.