



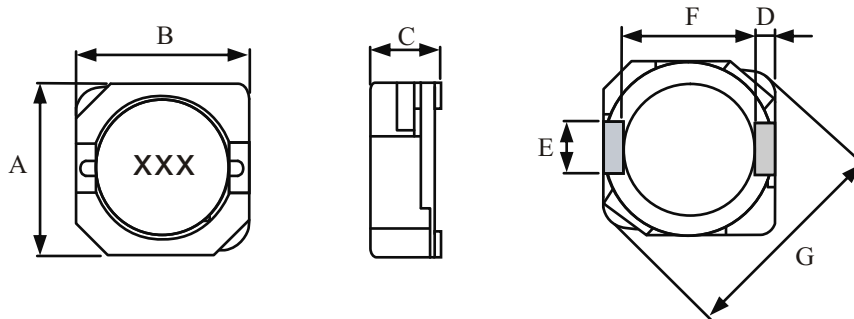
Features

- Large Current and Low DCR
- Magnetically shielded construction

Applications

- DC-DC converters, LCD television set
- VTR, OQ equipment, Notebook
- Portable communication equipment

► Dimensions & Configurations (Unit:mm)



Type	A(max)	B(max)	C(max)	D	E	F	G
MSRH103	10.3	10.4	3.0	1.2	3.0	7.7	13.5
MSRH104	10.3	10.4	4.0	1.2	3.0	7.7	13.5
MSRH105	10.3	10.4	5.0	1.2	3.0	7.7	13.5

► Electrical Characteristics For MSRH103 Series

Part Number	Inductance [μ H]	Test Freq [KHz]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRH103-100M	10	100	0.059	3.18	2.80
MSRH103-150M	15	100	0.091	2.60	2.05
MSRH103-220M	22	100	0.143	2.16	1.60
MSRH103-330M	33	100	0.202	1.74	1.35
MSRH103-470M	47	100	0.299	1.43	1.20
MSRH103-560M	56	100	0.325	1.36	1.15
MSRH103-680M	68	100	0.429	1.22	0.95
MSRH103-820M	82	100	0.494	1.14	0.80
MSRH103-101M	100	100	0.683	1.02	0.70
MSRH103-121M	120	100	0.754	0.89	0.65
MSRH103-151M	150	100	0.871	0.84	0.51

Inductance drop=35% typ. At Isat.
 $\Delta T=40^{\circ}\text{C}$ rise at I rms.

► Electrical Characteristics For MSRH104 Series

Part Number	Inductance [μ H]	Test Freq [KHz]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRH104 - 1R5N	1.5	100	0.008	10.00	6.50
MSRH104 - 2R5N	2.5	100	0.010	7.50	6.10
MSRH104 - 3R8N	3.8	100	0.013	6.00	5.50
MSRH104 - 5R2N	5.2	100	0.022	5.50	5.40
MSRH104 - 7R0N	7	100	0.027	4.80	4.50
MSRH104 - 100M	10	100	0.035	4.40	3.80
MSRH104 - 150M	15	100	0.050	3.60	3.10
MSRH104 - 220M	22	100	0.073	2.90	2.50
MSRH104 - 330M	33	100	0.093	2.30	2.20
MSRH104 - 470M	47	100	0.128	2.10	1.90
MSRH104 - 680M	68	100	0.213	1.50	1.42
MSRH104 - 101M	100	100	0.304	1.35	1.25
MSRH104 - 151M	150	100	0.506	1.15	0.85
MSRH104 - 221M	220	100	0.756	0.92	0.70
MSRH104 - 331M	330	100	1.090	0.70	0.52

Inductance drop=35% typ. At Isat.
 $\Delta T=40^{\circ}\text{C}$ rise at Irms.

► Electrical Characteristics For MSRH105 Series

Part Number	Inductance [μ H]	Test Freq [KHz]	DCR(max) [Ω]	Isat(max) [A]	Irms(max) [A]
MSRH105 - 100M	10	100	0.026	4.45	4.50
MSRH105 - 120M	12	100	0.032	4.00	3.80
MSRH105 - 150M	15	100	0.040	3.60	3.40
MSRH105 - 180M	18	100	0.046	3.20	3.10
MSRH105 - 220M	22	100	0.059	2.95	2.90
MSRH105 - 270M	27	100	0.065	2.70	2.60
MSRH105 - 330M	33	100	0.081	2.40	2.50
MSRH105 - 390M	39	100	0.103	2.30	2.25
MSRH105 - 470M	47	100	0.122	2.00	2.00
MSRH105 - 560M	56	100	0.145	1.90	1.90
MSRH105 - 680M	68	100	0.193	1.65	1.60
MSRH105 - 820M	82	100	0.219	1.50	1.45
MSRH105 - 101M	100	100	0.247	1.35	1.35
MSRH105 - 121M	120	100	0.298	1.28	1.18
MSRH105 - 151M	150	100	0.355	1.12	1.10
MSRH105 - 181M	180	100	0.394	1.04	1.00
MSRH105 - 221M	220	100	0.484	0.94	0.94
MSRH105 - 271M	270	100	0.633	0.84	0.80
MSRH105 - 331M	330	100	0.780	0.75	0.73
MSRH105 - 391M	390	100	0.958	0.70	0.70
MSRH105 - 471M	470	100	1.220	0.60	0.54
MSRH105 - 561M	560	100	1.352	0.54	0.52
MSRH105 - 681M	680	100	1.519	0.52	0.51
MSRH105 - 821M	820	100	1.694	0.50	0.48
MSRH105 - 102M	1000	100	1.946	0.48	0.42

Inductance drop=35% typ. At Isat.
 $\Delta T=40^{\circ}\text{C}$ rise at Irms.