

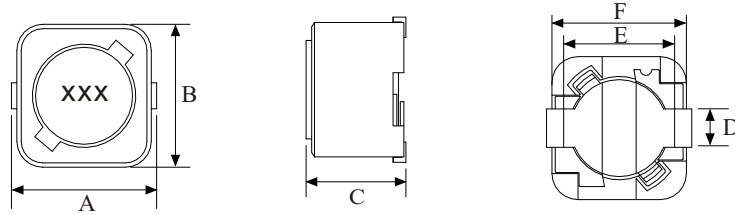
Features

- Magnetically Shielded Structure
- Various high power inductors are superior to be high saturation for surface mounting.

Applications

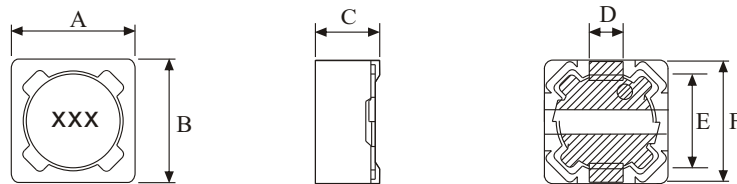
- Power supply for VTR
- OA equipment
- Digital camera
- LCD television set notebook PC
- portable communication equipments
- DC/DC converters, etc.

► Dimensions & Configurations (Unit:mm)



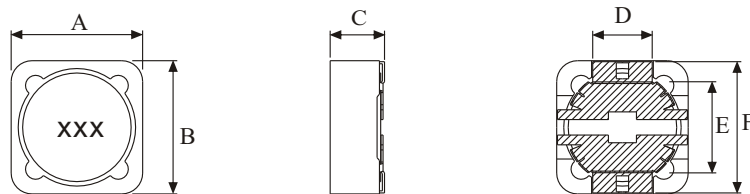
Type	A ± 0.3	B ± 0.3	C (max)	D ± 0.2	E ± 0.5	F ± 0.5
MSRH63	6.6	6.2	3.0	1.5	6.6	4.6
MSRH65	6.6	6.2	5.0	1.5	6.6	4.6

► Dimensions & Configurations (Unit:mm)



Type	A ± 0.3	B ± 0.3	C (max)	D ± 0.2	E ± 0.2	F ± 0.2
MSRH73	7.3	7.3	3.5	1.8	5.1	7.2
MSRH74	7.3	7.3	4.5	1.8	5.1	7.2

► Dimensions & Configurations (Unit:mm)



Type	A ± 0.3	B ± 0.3	C (max)	D ± 0.2	E ± 0.5	F ± 0.2
MSRH123	12.0	12.0	4.0	5.0	7.8	11.8
MSRH124	12.0	12.0	4.5	5.0	7.8	11.8
MSRH125	12.0	12.0	6.0	5.0	7.6	11.8
MSRH127	12.0	12.0	8.0	5.0	7.6	12.0
MSRH129	12.0	12.0	10.0	5.0	7.6	12.0

▶ Electrical Characteristics For MSRH63 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH63 - 2R9M	2.9	1	0.07	1.94
MSRH63 - 4R0M	4	1	0.08	1.63
MSRH63 - 5R5M	5.5	1	0.10	1.40
MSRH63 - 100M	10	1	0.15	1.10
MSRH63 - 120M	12	1	0.20	1.00
MSRH63 - 150M	15	1	0.23	0.90
MSRH63 - 180M	18	1	0.27	0.80
MSRH63 - 220M	22	1	0.34	0.74
MSRH63 - 270M	27	1	0.38	0.66
MSRH63 - 330M	33	1	0.45	0.59
MSRH63 - 390M	39	1	0.49	0.54
MSRH63 - 470M	47	1	0.69	0.50
MSRH63 - 560M	56	1	0.78	0.46
MSRH63 - 680M	68	1	1.07	0.42
MSRH63 - 820M	82	1	1.21	0.38
MSRH63 - 101M	100	1	1.39	0.34
MSRH63 - 121M	120	1	1.90	0.31
MSRH63 - 151M	150	1	2.18	0.28
MSRH63 - 181M	180	1	2.48	0.26
MSRH63 - 221M	220	1	3.12	0.23
MSRH63 - 271M	270	1	4.30	0.22
MSRH63 - 331M	330	1	4.94	0.19

▶ Electrical Characteristics For MSRH65 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH65 - 100M	10	1	0.12	1.35
MSRH65 - 120M	12	1	0.13	1.22
MSRH65 - 150M	15	1	0.18	1.11
MSRH65 - 180M	18	1	0.24	1.02
MSRH65 - 220M	22	1	0.27	0.91
MSRH65 - 270M	27	1	0.30	0.82
MSRH65 - 330M	33	1	0.33	0.74
MSRH65 - 390M	39	1	0.37	0.69
MSRH65 - 470M	47	1	0.52	0.62
MSRH65 - 560M	56	1	0.56	0.58
MSRH65 - 680M	68	1	0.63	0.51
MSRH65 - 820M	82	1	0.71	0.46
MSRH65 - 101M	100	1	1.03	0.42
MSRH65 - 121M	120	1	1.15	0.38
MSRH65 - 151M	150	1	1.68	0.35
MSRH65 - 181M	180	1	1.87	0.32
MSRH65 - 221M	220	1	2.08	0.29
MSRH65 - 271M	270	1	2.37	0.26
MSRH65 - 331M	330	1	2.67	0.23
MSRH65 - 391M	390	1	2.94	0.22
MSRH65 - 471M	470	1	3.93	0.20
MSRH65 - 561M	560	1	5.43	0.18
MSRH65 - 681M	680	1	7.32	0.17
MSRH65 - 821M	820	1	8.24	0.15
MSRH65 - 102M	1000	1	9.26	0.14

► Electrical Characteristics For MSRH73 Series

Part Number	Inductance [μ H]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH73 - 100M	10	1	0.072	1.68
MSRH73 - 120M	12	1	0.098	1.52
MSRH73 - 150M	15	1	0.13	1.33
MSRH73 - 180M	18	1	0.14	1.20
MSRH73 - 220M	22	1	0.19	1.07
MSRH73 - 270M	27	1	0.21	0.96
MSRH73 - 330M	33	1	0.24	0.91
MSRH73 - 390M	39	1	0.32	0.77
MSRH73 - 470M	47	1	0.36	0.76
MSRH73 - 560M	56	1	0.47	0.68
MSRH73 - 680M	68	1	0.52	0.61
MSRH73 - 820M	82	1	0.69	0.57
MSRH73 - 101M	100	1	0.79	0.50
MSRH73 - 121M	120	1	0.89	0.49
MSRH73 - 151M	150	1	1.27	0.43
MSRH73 - 181M	180	1	1.45	0.39
MSRH73 - 221M	220	1	1.65	0.35
MSRH73 - 271M	270	1	2.31	0.32
MSRH73 - 331M	330	1	2.62	0.28
MSRH73 - 391M	390	1	2.94	0.26
MSRH73 - 471M	470	1	4.18	0.24
MSRH73 - 561M	560	1	4.67	0.22
MSRH73 - 681M	680	1	5.73	0.19
MSRH73 - 102M	1000	1	9.44	0.16

► Electrical Characteristics For MSRH74 Series

Part Number	Inductance [μ H]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH74 - 100M	10	1	0.049	1.84
MSRH74 - 120M	12	1	0.058	1.71
MSRH74 - 150M	15	1	0.081	1.47
MSRH74 - 180M	18	1	0.091	1.31
MSRH74 - 220M	22	1	0.110	1.23
MSRH74 - 270M	27	1	0.150	1.12
MSRH74 - 330M	33	1	0.170	0.96
MSRH74 - 390M	39	1	0.230	0.91
MSRH74 - 470M	47	1	0.260	0.88
MSRH74 - 560M	56	1	0.350	0.75
MSRH74 - 680M	68	1	0.380	0.69
MSRH74 - 820M	82	1	0.430	0.61
MSRH74 - 101M	100	1	0.610	0.60
MSRH74 - 121M	120	1	0.660	0.52
MSRH74 - 151M	150	1	0.880	0.46
MSRH74 - 181M	180	1	0.980	0.42
MSRH74 - 221M	220	1	1.170	0.36
MSRH74 - 271M	270	1	1.640	0.34
MSRH74 - 331M	330	1	1.860	0.32
MSRH74 - 391M	390	1	2.850	0.29
MSRH74 - 471M	470	1	3.010	0.26
MSRH74 - 561M	560	1	3.620	0.23
MSRH74 - 681M	680	1	4.630	0.22
MSRH74 - 102M	1000	1	6.000	0.18

► Electrical Characteristics For MSRH123 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH123 - 100M	10	100	0.050	4.00
MSRH123 - 120M	12	100	0.054	3.85
MSRH123 - 150M	15	100	0.061	3.60
MSRH123 - 180M	18	100	0.090	3.40
MSRH123 - 220M	22	100	0.100	3.20
MSRH123 - 270M	27	100	0.114	3.00
MSRH123 - 330M	33	100	0.156	2.50
MSRH123 - 390M	39	100	0.188	2.35
MSRH123 - 470M	47	100	0.220	2.30
MSRH123 - 560M	56	100	0.260	2.20
MSRH123 - 680M	68	100	0.280	1.80
MSRH123 - 820M	82	100	0.380	1.70
MSRH123 - 101M	100	100	0.440	1.66
MSRH123 - 121M	120	100	0.480	1.50
MSRH123 - 151M	150	100	0.660	1.40
MSRH123 - 181M	180	100	0.860	1.20
MSRH123 - 221M	220	100	1.000	1.00
MSRH123 - 271M	270	100	1.100	0.85
MSRH123 - 331M	330	100	1.400	0.70
MSRH123 - 391M	390	100	1.600	0.60
MSRH123 - 471M	470	100	1.800	0.50

► Electrical Characteristics For MSRH124 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH124 - 3R9N	3.9	100	0.015	6.50
MSRH124 - 4R7N	4.7	100	0.018	5.70
MSRH124 - 6R8N	6.8	100	0.023	4.90
MSRH124 - 8R2N	8.2	100	0.026	4.60
MSRH124 - 100M	10	100	0.028	4.50
MSRH124 - 120M	12	100	0.038	4.00
MSRH124 - 150M	15	100	0.050	3.20
MSRH124 - 180M	18	100	0.057	3.10
MSRH124 - 220M	22	100	0.066	2.90
MSRH124 - 270M	27	100	0.080	2.80
MSRH124 - 330M	33	100	0.097	2.70
MSRH124 - 390M	39	100	0.132	2.10
MSRH124 - 470M	47	100	0.160	1.90
MSRH124 - 560M	56	100	0.190	1.80
MSRH124 - 680M	68	100	0.220	1.50
MSRH124 - 820M	82	100	0.260	1.30
MSRH124 - 101M	100	100	0.308	1.20
MSRH124 - 121M	120	100	0.380	1.10
MSRH124 - 151M	150	100	0.530	0.95
MSRH124 - 181M	180	100	0.620	0.85
MSRH124 - 221M	220	100	0.700	0.80
MSRH124 - 271M	270	100	0.870	0.60
MSRH124 - 331M	330	100	0.990	0.50

► Electrical Characteristics For MSRH125 Series

Part Number	Inductance [μ H]	Test Freq [Hz]	DCR(max) [Ω]	IDC(max) [A]
MSRH125 - 1R3N	1.3	7.96M	0.012	8.00
MSRH125 - 2R1N	2.1	7.96M	0.014	7.00
MSRH125 - 3R1N	3.1	7.96M	0.017	6.00
MSRH125 - 4R4N	4.4	7.96M	0.020	5.00
MSRH125 - 5R8N	5.8	7.96M	0.021	4.40
MSRH125 - 7R5N	7.5	7.96M	0.024	4.20
MSRH125 - 100M	10	1K	0.025	4.00
MSRH125 - 120M	12	1K	0.027	3.50
MSRH125 - 150M	15	1K	0.030	3.30
MSRH125 - 180M	18	1K	0.034	3.00
MSRH125 - 220M	22	1K	0.036	2.80
MSRH125 - 270M	27	1K	0.051	2.30
MSRH125 - 330M	33	1K	0.057	2.10
MSRH125 - 390M	39	1K	0.068	2.00
MSRH125 - 470M	47	1K	0.075	1.80
MSRH125 - 560M	56	1K	0.110	1.70
MSRH125 - 680M	68	1K	0.120	1.50
MSRH125 - 820M	82	1K	0.140	1.40
MSRH125 - 101M	100	1K	0.160	1.30
MSRH125 - 121M	120	1K	0.170	1.10
MSRH125 - 151M	150	1K	0.230	1.00
MSRH125 - 181M	180	1K	0.290	0.90
MSRH125 - 221M	220	1K	0.400	0.80
MSRH125 - 271M	270	1K	0.460	0.75
MSRH125 - 331M	330	1K	0.510	0.68
MSRH125 - 391M	390	1K	0.690	0.65
MSRH125 - 471M	470	1K	0.770	0.58
MSRH125 - 561M	560	1K	0.860	0.54
MSRH125 - 681M	680	1K	1.200	0.48
MSRH125 - 821M	820	1K	1.340	0.43
MSRH125 - 102M	1000	1K	1.530	0.40

► Electrical Characteristics For MSRH127 Series

Part Number	Inductance [μ H]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH127 - 1R2N	1.2	100	0.007	9.80
MSRH127 - 2R4N	2.4	100	0.012	8.00
MSRH127 - 3R5N	3.5	100	0.014	7.50
MSRH127 - 4R7N	4.7	100	0.016	6.80
MSRH127 - 6R1N	6.1	100	0.018	6.60
MSRH127 - 7R6N	7.6	100	0.020	5.90
MSRH127 - 100M	10	1	0.022	5.40
MSRH127 - 120M	12	1	0.024	4.90
MSRH127 - 150M	15	1	0.024	4.50
MSRH127 - 180M	18	1	0.039	3.90
MSRH127 - 220M	22	1	0.043	3.60
MSRH127 - 270M	27	1	0.046	3.40
MSRH127 - 330M	33	1	0.065	3.00
MSRH127 - 390M	39	1	0.073	2.75
MSRH127 - 470M	47	1	0.100	2.50
MSRH127 - 560M	56	1	0.110	2.35
MSRH127 - 680M	68	1	0.140	2.10
MSRH127 - 820M	82	1	0.160	1.95
MSRH127 - 101M	100	1	0.220	1.70
MSRH127 - 121M	120	1	0.250	1.60
MSRH127 - 151M	150	1	0.280	1.42
MSRH127 - 181M	180	1	0.350	1.30
MSRH127 - 221M	220	1	0.390	1.16
MSRH127 - 271M	270	1	0.560	1.06
MSRH127 - 331M	330	1	0.640	0.95
MSRH127 - 391M	390	1	0.700	0.88
MSRH127 - 471M	470	1	0.980	0.79
MSRH127 - 561M	560	1	1.070	0.73
MSRH127 - 681M	680	1	1.460	0.67
MSRH127 - 821M	820	1	1.640	0.60
MSRH127 - 102M	1000	1	1.820	0.55

► Electrical Characteristics For MSRH129 Series

Part Number	Inductance [μ H]	Test Freq [KHz]	DCR(Ω) [Max.] (Typ.) (at 20°C)	Saturation Current [A]		Temperature Rise Current [A]
				at 25°C	at 125°C	
MSRH129 - 1R0N	1	100	5.5m (4.4m)	19.90 (24.90)	12.3 (15.4)	11.6 (13.4)
MSRH129 - 1R8N	1.8	100	6.5m (5.2m)	13.40 (16.80)	11.4 (14.3)	11.0 (12.6)
MSRH129 - 2R5N	2.5	100	8.0m (6.4m)	12.16 (15.2)	9.36 (11.7)	10.3 (11.7)
MSRH129 - 3R5N	3.5	100	9.7m (7.7m)	12.00 (15.0)	9.4 (11.8)	8.70 (9.90)
MSRH129 - 4R7N	4.7	100	11m (8.9m)	10.08 (12.6)	7.84 (9.80)	8.40 (9.40)
MSRH129 - 6R8N	6.8	100	12.4m (9.9m)	8.56 (10.70)	6.72 (8.40)	7.10 (8.20)
MSRH129 - 7R5N	7.5	100	14m (11m)	8.48 (10.60)	6.56 (8.20)	6.80 (7.80)
MSRH129 - 100M	10	1	18m (14.4m)	7.12 (8.90)	4.80 (6.00)	6.95 (7.60)
MSRH129 - 120M	12	1	19m (15m)	7.04 (8.80)	4.72 (5.90)	6.20 (7.10)
MSRH129 - 150M	15	1	26m (21m)	5.84 (7.30)	4.64 (5.80)	5.22 (5.95)
MSRH129 - 220M	22	1	29m (23m)	5.12 (6.40)	3.92 (4.90)	4.95 (5.70)
MSRH129 - 330M	33	1	53m (42m)	4.25 (5.30)	3.36 (4.20)	3.60 (4.10)
MSRH129 - 470M	47	1	63m (50m)	3.60 (4.50)	2.81 (3.52)	3.45 (3.92)
MSRH129 - 560M	56	1	68m (54m)	2.85 (3.57)	2.20 (2.75)	2.95 (3.40)
MSRH129 - 680M	68	1	93m (74m)	2.76 (3.45)	2.24 (2.80)	2.85 (3.25)
MSRH129 - 820M	82	1	99m (79m)	2.62 (3.28)	1.98 (2.48)	2.60 (2.90)
MSRH129 - 101M	100	1	0.126 (0.101)	2.31 (2.89)	1.82 (2.28)	2.45 (2.75)
MSRH129 - 121M	120	1	0.154 (0.123)	2.05 (2.57)	1.56 (1.95)	2.20 (2.45)
MSRH129 - 151M	150	1	0.174 (0.139)	1.80 (2.25)	1.44 (1.80)	1.90 (2.16)
MSRH129 - 181M	180	1	0.191 (0.153)	1.66 (2.08)	1.22 (1.53)	1.86 (2.13)
MSRH129 - 221M	220	1	0.246 (0.197)	1.64 (2.05)	1.26 (1.58)	1.72 (1.95)
MSRH129 - 331M	330	1	0.386 (0.309)	1.28 (1.60)	1.04 (1.30)	1.28 (1.45)
MSRH129 - 471M	470	1	0.471 (0.377)	1.06 (1.33)	0.87 (1.09)	1.25 (1.41)
MSRH129 - 561M	560	1	0.650 (0.520)	1.01 (1.27)	0.76 (0.95)	0.98 (1.12)
MSRH129 - 681M	680	1	0.730 (0.584)	0.83 (1.04)	0.68 (0.86)	0.96 (1.10)
MSRH129 - 821M	820	1	0.824 (0.659)	0.81 (1.02)	0.63 (0.79)	0.94 (1.06)
MSRH129 - 102M	1000	1	1.22 (0.97)	0.70 (0.88)	0.56 (0.71)	0.78 (0.88)
MSRH129 - 122M	1200	1	1.33 (1.11)	0.64 (0.81)	0.52 (0.65)	0.79 (0.90)
MSRH129 - 152M	1500	1	1.99 (1.66)	0.56 (0.71)	0.44 (0.56)	0.58 (0.66)
MSRH129 - 182M	1800	1	2.18 (1.82)	0.48 (0.60)	0.38 (0.48)	0.54 (0.62)
MSRH129 - 222M	2200	1	2.58 (2.15)	0.43 (0.54)	0.37 (0.47)	0.52 (0.59)

1. Saturation current: The DC current at which the inductance decreased to 90% of its initial value.

2. Temperature rise current: The DC current at which the temperature rise is $\Delta T=40^{\circ}\text{C}$. ($T_a=20^{\circ}\text{C}$)