MSRH-3D/4D/5D/6D SMD Power Inductor

Meisongbei



Features

- Magnetically shielded
- Low profile
- Low DCR and excellent current

Application:

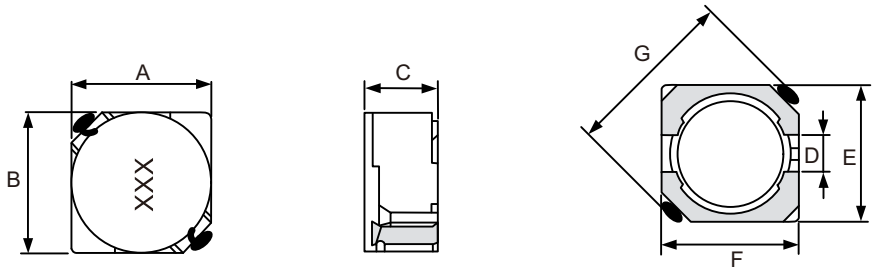
- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL

General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1

RoHS COMPLIANT | REACH COMPLIANT | Halogen Free

Dimensions & Configurations (Unit:mm)



Type	A(max)	B(max)	C(max)	D(Ref)	E(Ref)	F(Ref)	G(Ref)
MSRH3D16	4.0	4.0	1.8	1.2	3.5	3.5	5.2
MSRH3D28	4.0	4.0	3.0	1.2	3.5	3.5	5.2
MSRH4D18	5.0	5.0	2.0	1.5	4.5	4.5	6.9
MSRH4D22	5.0	5.0	2.4	1.5	4.5	4.5	6.9
MSRH4D28	5.0	5.0	3.0	1.5	4.5	4.5	6.9
MSRH5D18	6.0	6.0	2.0	2.0	5.5	5.5	8.2
MSRH5D28	6.0	6.0	3.0	2.0	5.5	5.5	8.2
MSRH6D28	7.0	7.0	3.0	2.0	6.5	6.5	9.5
MSRH6D38	7.0	7.0	4.0	2.0	6.5	6.5	9.5

Electrical Characteristics For MSRH3D16 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH3D16-1R5N	1.5 ±30%	100	0.052	1.55
MSRH3D16-2R2N	2.2 ±30%	100	0.072	1.20
MSRH3D16-3R3N	3.3 ±30%	100	0.085	1.10
MSRH3D16-4R7N	4.7 ±30%	100	0.105	0.90
MSRH3D16-6R8N	6.8 ±30%	100	0.170	0.73
MSRH3D16-100M	10 ±20%	100	0.210	0.55
MSRH3D16-150M	15 ±20%	100	0.295	0.45
MSRH3D16-220M	22 ±20%	100	0.430	0.40
MSRH3D16-330M	33 ±20%	100	0.675	0.32

Electrical Characteristics For MSRH3D28 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH3D28-1R0N	1.0 ±30%	100	0.038	3.00
MSRH3D28-3R3N	3.3 ±30%	100	0.072	2.00
MSRH3D28-4R7N	4.7 ±30%	100	0.088	1.65
MSRH3D28-6R8N	6.8 ±30%	100	0.119	1.24
MSRH3D28-100M	10 ±20%	100	0.145	1.05
MSRH3D28-150M	15 ±20%	100	0.213	0.90
MSRH3D28-220M	22 ±20%	100	0.335	0.76
MSRH3D28-330M	33 ±20%	100	0.410	0.58
MSRH3D28-470M	47 ±20%	100	0.599	0.48

Electrical Characteristics For MSRH4D18 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH4D18-1R0N	1.0 ±30%	100	0.045	1.72
MSRH4D18-2R2N	2.2 ±30%	100	0.075	1.32
MSRH4D18-2R7N	2.7 ±30%	100	0.105	1.28
MSRH4D18-3R3N	3.3 ±30%	100	0.110	1.04
MSRH4D18-3R9N	3.9 ±30%	100	0.155	0.88
MSRH4D18-4R7N	4.7 ±30%	100	0.162	0.84
MSRH4D18-5R6N	5.6 ±30%	100	0.170	0.80
MSRH4D18-6R8N	6.8 ±30%	100	0.180	0.76
MSRH4D18-8R2N	8.2 ±30%	100	0.190	0.68
MSRH4D18-100M	10 ±20%	100	0.200	0.61
MSRH4D18-120M	12 ±20%	100	0.210	0.56
MSRH4D18-150M	15 ±20%	100	0.240	0.50
MSRH4D18-180M	18 ±20%	100	0.338	0.48
MSRH4D18-220M	22 ±20%	100	0.397	0.41
MSRH4D18-270M	27 ±20%	100	0.441	0.35
MSRH4D18-330M	33 ±20%	100	0.694	0.32
MSRH4D18-390M	39 ±20%	100	0.709	0.30

Electrical Characteristics For MSRH4D22 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH4D22-1R5N	1.5 ±30%	100	0.018	2.00
MSRH4D22-1R8N	1.8 ±30%	100	0.022	1.90
MSRH4D22-2R3N	2.3 ±30%	100	0.025	1.80
MSRH4D22-3R3N	3.3 ±30%	100	0.035	1.40
MSRH4D22-3R9N	3.9 ±30%	100	0.040	1.30
MSRH4D22-4R7N	4.7 ±30%	100	0.056	1.10
MSRH4D22-5R6N	5.6 ±30%	100	0.062	1.05
MSRH4D22-6R8N	6.8 ±30%	100	0.088	1.00
MSRH4D22-8R2N	8.2 ±30%	100	0.097	0.90
MSRH4D22-100M	10 ±20%	100	0.102	0.80
MSRH4D22-120M	12 ±20%	100	0.110	0.75
MSRH4D22-150M	15 ±20%	100	0.127	0.68
MSRH4D22-180M	18 ±20%	100	0.169	0.60
MSRH4D22-220M	22 ±20%	100	0.200	0.54
MSRH4D22-270M	27 ±20%	100	0.283	0.51
MSRH4D22-330M	33 ±20%	100	0.326	0.48
MSRH4D22-390M	39 ±20%	100	0.451	0.43
MSRH4D22-470M	47 ±20%	100	0.500	0.38
MSRH4D22-560M	56 ±20%	100	0.555	0.36
MSRH4D22-680M	68 ±20%	100	0.634	0.33
MSRH4D22-820M	82 ±20%	100	0.795	0.30
MSRH4D22-101M	100 ±20%	100	0.880	0.25
MSRH4D22-121M	120 ±20%	100	1.140	0.23
MSRH4D22-151M	150 ±20%	100	1.350	0.21

Electrical Characteristics For MSRH4D28 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH4D28-1R2N	1.2 ±30%	100	0.024	2.56
MSRH4D28-1R8N	1.8 ±30%	100	0.028	2.20
MSRH4D28-2R2N	2.2 ±30%	100	0.031	2.04
MSRH4D28-2R7N	2.7 ±30%	100	0.043	1.60
MSRH4D28-3R3N	3.3 ±30%	100	0.049	1.57
MSRH4D28-3R9N	3.9 ±30%	100	0.065	1.44
MSRH4D28-4R7N	4.7 ±30%	100	0.072	1.32
MSRH4D28-5R6N	5.6 ±30%	100	0.101	1.17
MSRH4D28-6R8N	6.8 ±30%	100	0.109	1.12
MSRH4D28-8R2N	8.2 ±30%	100	0.118	1.04
MSRH4D28-100M	10 ±20%	100	0.128	1.00
MSRH4D28-120M	12 ±20%	100	0.132	0.84
MSRH4D28-150M	15 ±20%	100	0.149	0.76
MSRH4D28-180M	18 ±20%	100	0.166	0.72
MSRH4D28-220M	22 ±20%	100	0.235	0.70
MSRH4D28-270M	27 ±20%	100	0.261	0.58
MSRH4D28-330M	33 ±20%	100	0.331	0.56
MSRH4D28-390M	39 ±20%	100	0.384	0.50
MSRH4D28-470M	47 ±20%	100	0.587	0.48
MSRH4D28-560M	56 ±20%	100	0.625	0.41
MSRH4D28-680M	68 ±20%	100	0.699	0.35
MSRH4D28-820M	82 ±20%	100	0.915	0.32
MSRH4D28-101M	100 ±20%	100	1.02	0.29
MSRH4D28-121M	120 ±20%	100	1.27	0.27
MSRH4D28-151M	150 ±20%	100	1.35	0.24
MSRH4D28-181M	180 ±20%	100	1.54	0.22

Electrical Characteristics For MSRH5D18 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH5D18-4R1N	4.1 ±30%	100	0.057	1.95
MSRH5D18-4R7N	4.7 ±30%	100	0.065	1.85
MSRH5D18-5R4N	5.4 ±30%	100	0.076	1.60
MSRH5D18-5R6N	5.6 ±30%	100	0.083	1.60
MSRH5D18-6R2N	6.2 ±30%	100	0.096	1.40
MSRH5D18-6R8N	6.8 ±30%	100	0.100	1.45
MSRH5D18-8R2N	8.2 ±30%	100	0.120	1.25
MSRH5D18-8R9N	8.9 ±30%	100	0.116	1.25
MSRH5D18-100M	10 ±20%	100	0.124	1.20
MSRH5D18-120M	12 ±20%	100	0.153	1.10
MSRH5D18-150M	15 ±20%	100	0.196	0.97
MSRH5D18-180M	18 ±20%	100	0.210	0.85
MSRH5D18-220M	22 ±20%	100	0.290	0.80
MSRH5D18-270M	27 ±20%	100	0.330	0.75
MSRH5D18-330M	33 ±20%	100	0.385	0.65
MSRH5D18-390M	39 ±20%	100	0.520	0.57
MSRH5D18-470M	47 ±20%	100	0.595	0.54
MSRH5D18-560M	56 ±20%	100	0.665	0.50
MSRH5D18-680M	68 ±20%	100	0.840	0.43
MSRH5D18-820M	82 ±20%	100	0.978	0.41
MSRH5D18-101M	100 ±20%	100	1.200	0.36

Electrical Characteristics For MSRH5D28 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH5D28-2R5N	2.5 ±30%	100	0.018	2.60
MSRH5D28-3R0N	3.0 ±30%	100	0.024	2.40
MSRH5D28-4R2N	4.2 ±30%	100	0.031	2.20
MSRH5D28-5R3N	5.3 ±30%	100	0.038	1.90
MSRH5D28-6R2N	6.2 ±30%	100	0.045	1.80
MSRH5D28-8R2N	8.2 ±30%	100	0.053	1.60
MSRH5D28-100M	10 ±20%	100	0.065	1.30
MSRH5D28-120M	12 ±20%	100	0.076	1.20
MSRH5D28-150M	15 ±20%	100	0.103	1.10
MSRH5D28-180M	18 ±20%	100	0.110	1.00
MSRH5D28-220M	22 ±20%	100	0.122	0.90
MSRH5D28-270M	27 ±20%	100	0.175	0.85
MSRH5D28-330M	33 ±20%	100	0.189	0.75
MSRH5D28-390M	39 ±20%	100	0.212	0.70
MSRH5D28-470M	47 ±20%	100	0.250	0.62
MSRH5D28-560M	56 ±20%	100	0.305	0.58
MSRH5D28-680M	68 ±20%	100	0.355	0.52
MSRH5D28-820M	82 ±20%	100	0.463	0.46
MSRH5D28-101M	100 ±20%	100	0.520	0.42

Electrical Characteristics For MSRH6D28 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH6D28-3R0N	3.0 ±30%	100	0.024	3.00
MSRH6D28-3R9N	3.9 ±30%	100	0.027	2.60
MSRH6D28-5R0N	5.0 ±30%	100	0.031	2.40
MSRH6D28-6R0N	6.0 ±30%	100	0.035	2.25
MSRH6D28-7R3N	7.3 ±30%	100	0.054	2.10
MSRH6D28-8R6N	8.6 ±30%	100	0.058	1.85
MSRH6D28-100M	10 ±20%	100	0.065	1.70
MSRH6D28-120M	12 ±20%	100	0.070	1.55
MSRH6D28-150M	15 ±20%	100	0.084	1.40
MSRH6D28-180M	18 ±20%	100	0.095	1.32
MSRH6D28-220M	22 ±20%	100	0.128	1.20
MSRH6D28-270M	27 ±20%	100	0.142	1.05
MSRH6D28-330M	33 ±20%	100	0.165	0.97
MSRH6D28-390M	39 ±20%	100	0.210	0.86
MSRH6D28-470M	47 ±20%	100	0.238	0.80
MSRH6D28-560M	56 ±20%	100	0.277	0.73
MSRH6D28-680M	68 ±20%	100	0.304	0.65
MSRH6D28-820M	82 ±20%	100	0.390	0.60
MSRH6D28-101M	100 ±20%	100	0.535	0.54

Electrical Characteristics For MSRH6D38 Series

Part Number	Inductance [μH]	Test Freq [KHz]	DCR(max) [Ω]	IDC(max) [A]
MSRH6D38-3R3N	3.3 ±30%	100	0.020	3.50
MSRH6D38-5R0N	5.0 ±30%	100	0.024	2.90
MSRH6D38-6R2N	6.2 ±30%	100	0.027	2.50
MSRH6D38-7R4N	7.4 ±30%	100	0.031	2.30
MSRH6D38-8R7N	8.7 ±30%	100	0.034	2.20
MSRH6D38-100M	10 ±20%	100	0.044	2.00
MSRH6D38-120M	12 ±20%	100	0.053	1.70
MSRH6D38-150M	15 ±20%	100	0.057	1.60
MSRH6D38-180M	18 ±20%	100	0.092	1.50
MSRH6D38-220M	22 ±20%	100	0.096	1.30
MSRH6D38-270M	27 ±20%	100	0.109	1.20
MSRH6D38-330M	33 ±20%	100	0.124	1.10
MSRH6D38-390M	39 ±20%	100	0.138	1.00
MSRH6D38-470M	47 ±20%	100	0.155	0.92
MSRH6D38-560M	56 ±20%	100	0.202	0.85
MSRH6D38-680M	68 ±20%	100	0.234	0.75
MSRH6D38-820M	82 ±20%	100	0.324	0.70
MSRH6D38-101M	100 ±20%	100	0.358	0.65