

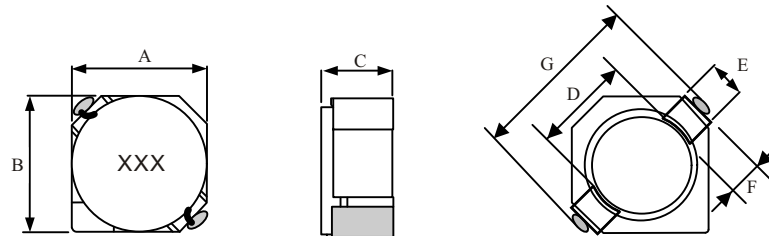
### Features

- Magnetically Shielded Structure
- Low DC Resistance
- Excellent Mechanical Strength
- High Reliability and Excellent Solderability
- Low and square Profile
- High heat resistance

### Applications

- VCRs, Notebook, DC/DC Converters
- Video Digital Cameras
- Automotive Systems Power supplier
- LCD PDP Televisions
- Hard Disk Drives, Topset, XDSL
- Network Systems
- Computer Peripheral Equipment.

## ► Dimensions & Configurations (Unit:mm)



Type	A(max)	B(max)	C(max)	D	E	F	G(max)
MSRH2D11	3.2	3.2	1.2	2.1	1.0	0.7	4.5
MSRH2DHP	3.2	3.2	1.2	2.1	1.0	0.7	4.5
MSRH2D14	3.2	3.2	1.6	2.1	1.0	0.7	4.5
MSRH2D18LD	3.2	3.2	2.0	2.1	1.0	0.7	4.5
MSRH2D18HP	3.2	3.2	2.0	2.1	1.0	0.7	4.5
MSRH3D11	4.0	4.0	1.2	2.4	1.5	1.4	5.2
MSRH3D14HP	4.0	4.0	1.5	2.4	1.5	1.4	5.2
MSRH3D16	4.0	4.0	1.8	2.4	1.5	1.4	5.2
MSRH3D16LD	4.0	4.0	1.8	2.4	1.5	1.4	5.2
MSRH3D16HP	4.0	4.0	1.8	2.4	1.5	1.4	5.2
MSRH3D28	4.0	4.8	3.0	2.4	1.5	1.4	5.2
MSRH4D14HP	4.8	4.8	1.5	2.9	1.6	1.5	6.0

Note: Design as Customer's Requested Specifications.

## ▶ Electrical Characteristics For MSRH2D11LD Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH2D11 - 1R5N	1.5	100	0.068	0.90
MSRH2D11 - 2R2N	2.2	100	0.098	0.78
MSRH2D11 - 3R3N	3.3	100	0.123	0.60
MSRH2D11 - 4R7N	4.7	100	0.170	0.50
MSRH2D11 - 6R8N	6.8	100	0.260	0.44
MSRH2D11 - 100N	10	100	0.400	0.35

## ▶ Electrical Characteristics For MSRH2D11HP Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH2D11HP - 1R5N	1.5	100	0.080	1.35
MSRH2D11HP - 2R2N	2.2	100	0.120	1.10
MSRH2D11HP - 3R3N	3.3	100	0.173	0.90
MSRH2D11HP - 4R7N	4.7	100	0.238	0.75
MSRH2D11HP - 6R8N	6.8	100	0.371	0.63
MSRH2D11HP - 100N	10	100	0.559	0.52

## ▶ Electrical Characteristics For MSRH2D14 Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH2D14 - 1R5N	1.5	100	0.063	1.80
MSRH2D14 - 2R2N	2.2	100	0.094	1.50
MSRH2D14 - 3R3N	3.3	100	0.125	1.20
MSRH2D14 - 4R7N	4.7	100	0.167	1.00
MSRH2D14 - 6R8N	6.8	100	0.213	0.85
MSRH2D14 - 100N	10	100	0.294	0.70

## ▶ Electrical Characteristics For MSRH2D18LD Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH2D18LD - 2R2N	2.2	100	0.041	0.85
MSRH2D18LD - 3R3N	3.3	100	0.054	0.75
MSRH2D18LD - 4R7N	4.7	100	0.078	0.63
MSRH2D18LD - 6R8N	6.8	100	0.106	0.52
MSRH2D18LD - 100N	10	100	0.180	0.43
MSRH2D18LD - 150N	15	100	0.220	0.35

► Electrical Characteristics For MSRH2D18HP Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH2D18HP - 1R7N	1.7	100	0.044	1.85
MSRH2D18HP - 2R2N	2.2	100	0.060	1.60
MSRH2D18HP - 3R3N	3.3	100	0.086	1.45
MSRH2D18HP - 4R7N	4.7	100	0.140	1.20
MSRH2D18HP - 6R8N	6.8	100	0.160	1.05
MSRH2D18HP - 100N	10	100	0.245	0.85

► Electrical Characteristics For MSRH3D11 Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH3D11 - 2R7N	2.7	100	0.065	0.53
MSRH3D11 - 4R7N	4.7	100	0.095	0.40
MSRH3D11 - 6R8N	6.8	100	0.150	0.34
MSRH3D11 - 8R2N	8.2	100	0.190	0.32
MSRH3D11 - 100N	10	100	0.200	0.28
MSRH3D11 - 120N	12	100	0.230	0.25
MSRH3D11 - 150N	15	100	0.320	0.23
MSRH3D11 - 180N	18	100	0.400	0.21
MSRH3D11 - 220N	22	100	0.450	0.19
MSRH3D11 - 270N	27	100	0.650	0.17
MSRH3D11 - 330N	33	100	0.700	0.15
MSRH3D11 - 390N	39	100	0.850	0.14

► Electrical Characteristics For MSRH3D14HP Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH3D14HP - 1R5N	1.5	100	0.076	2.30
MSRH3D14HP - 2R2N	2.4	100	0.129	2.00
MSRH3D14HP - 3R3N	3.2	100	0.139	1.80
MSRH3D14HP - 4R7N	4.7	100	0.214	1.40
MSRH3D14HP - 6R8N	6.8	100	0.290	1.20
MSRH3D14HP - 8R2N	8.2	100	0.440	1.05
MSRH3D14HP - 100N	10	100	0.650	0.96
MSRH3D14HP - 100N	15	100	0.830	0.79

► Electrical Characteristics For MSRH3D16 Series

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

► Electrical Characteristics For MSRH3D16LD Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH3D16LD - 3R3	3.3	100	0.066	0.8
MSRH3D16LD - 3R9	3.9	100	0.081	0.75
MSRH3D16LD - 4R7	4.7	100	0.091	0.68
MSRH3D16LD - 5R6	5.6	100	0.102	0.62
MSRH3D16LD - 6R8	6.8	100	0.130	0.58
MSRH3D16LD - 8R2	8.2	100	0.140	0.51
MSRH3D16LD - 100	10	100	0.190	0.46
MSRH3D16LD - 120	12	100	0.205	0.42
MSRH3D16LD - 150	15	100	0.272	0.38

► Electrical Characteristics For MSRH16HP Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH3D16HP - 1R7	1.7	100	0.051	2.00
MSRH3D16HP - 2R2	2.2	100	0.059	1.75
MSRH3D16HP - 3R3	3.3	100	0.085	1.40
MSRH3D16HP - 3R9	3.9	100	0.116	1.20
MSRH3D16HP - 4R7	4.7	100	0.116	1.20
MSRH3D16HP - 5R6	5.6	100	0.230	0.84
MSRH3D16HP - 6R8	6.8	100	0.180	1.00
MSRH3D16HP - 8R2	8.2	100	0.610	0.55
MSRH3D16HP - 100	10	100	0.770	0.84

## ▶ Electrical Characteristics For MSRH3D28 Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH3D28 - 3R3	3.3	100	0.072	2.00
MSRH3D28 - 4R7	4.7	100	0.088	1.65
MSRH3D28 - 6R8	6.8	100	0.119	1.24
MSRH3D28 - 100	10	100	0.145	1.05
MSRH3D28 - 150	15	100	0.213	0.90
MSRH3D28 - 220	22	100	0.335	0.76
MSRH3D28 - 330	33	100	0.481	0.58

## ▶ Electrical Characteristics For MSRH4D14HP Series

Part Number	Inductance [ $\mu$ H]	Test Freq [KHz]	DCR(max) [ $\Omega$ ]	IDC(max) [A]
MSRH4D14HP - 1R8N	1.8	100	0.050	2.25
MSRH4D14HP - 2R4N	2.4	100	0.070	2.00
MSRH4D14HP - 3R0N	3.0	100	0.091	1.80
MSRH4D14HP - 4R7N	4.7	100	0.140	1.40
MSRH4D14HP - 6R8N	6.8	100	0.190	1.15
MSRH4D14HP - 100N	10	100	0.280	0.95