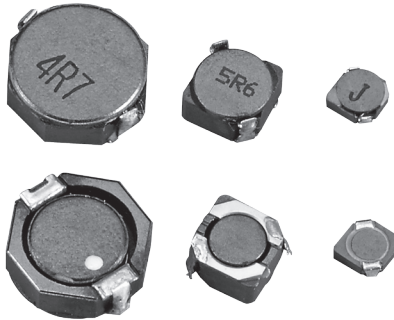




SMD Shielded Power Inductor

SRH Series



Features

- Magnetically shielded construction
- High power, High saturation inductors
- Low resistance and high energy storage

Application

- DC-DC converter of portable equipment
- Camcorder, LCD television set, Digital camera, P.D.A., Notebook

Part Numbering

SRH **2D14** **□** - **1R5** **N** - **□** **A**

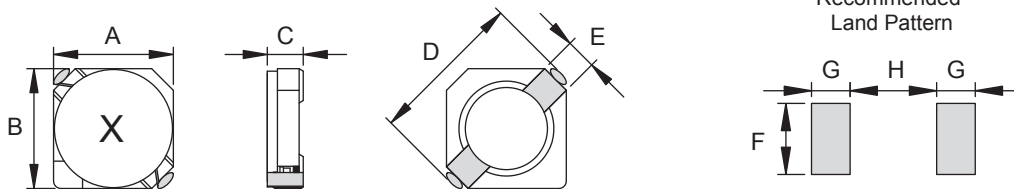
1 2 3 4 5 6 7

- 1 Product Group
- 2 Dimension Code
- 3 Type Code
- 4 Inductance Code: R means decimal point
Ex: 1R5→1.5μH
- 5 Inductance Tolerance M=±20%, N=±30%
- 6 Control Code
- 7 Automobile Code

Shapes and Dimension

SRH2D11A / SRH2D14A / SRH2D18A

SRH3D11A / SRH3D16A / SRH3D28A



Unit: mm

Type	A	B	C	D	E	F	G	H
SRH2D11A	3.20 (Max.)	3.20 (Max.)	1.20 (Max.)	4.50 (Max.)	1.00 (Typ.)	1.30	1.30	1.70
SRH2D14A	3.20 (Max.)	3.20 (Max.)	1.55 (Max.)	4.50 (Max.)	1.00 (Typ.)	1.30	1.30	1.70
SRH2D18A	3.20 (Max.)	3.20 (Max.)	2.00 (Max.)	4.50 (Max.)	1.00 (Typ.)	1.30	1.30	1.70
SRH3D11A	4.00 (Max.)	4.00 (Max.)	1.20 (Max.)	5.20 (Max.)	1.10 (Typ.)	1.50	1.40	2.40
SRH3D16A	4.00 (Max.)	4.00 (Max.)	1.80 (Max.)	5.20 (Max.)	1.10 (Typ.)	1.50	1.40	2.40
SRH3D28A	4.00 (Max.)	4.00 (Max.)	3.00 (Max.)	4.40 (Max.)	1.10 (Typ.)	1.50	1.40	2.40

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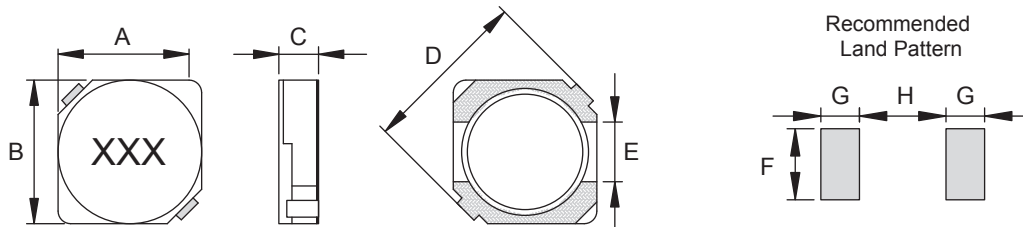


SMD Shielded Power Inductor

SRH Series

Shapes and Dimension

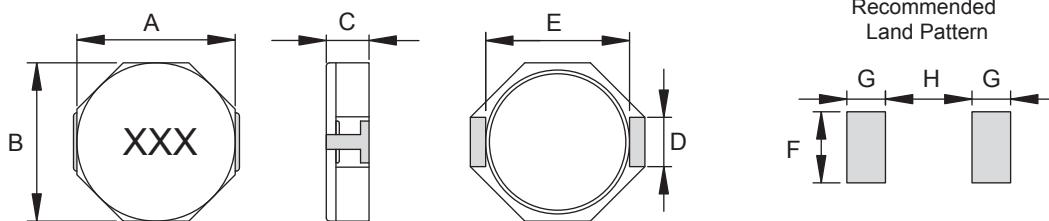
SRH4D18 / SRH4D28 / SRH5D28 / SRH6D28



Unit: mm

Type	A	B	C	D	E	F	G	H
SRH4D18	4.70±0.30	4.70±0.30	2.00 (Max.)	6.90 (Max.)	1.50 (Typ.)	5.30	1.90	1.50
SRH4D28	4.70±0.30	4.70±0.30	3.00 (Max.)	6.90 (Max.)	1.50 (Typ.)	5.30	1.90	1.50
SRH5D28	5.70±0.30	5.70±0.30	3.00 (Max.)	8.20 (Max.)	2.00 (Typ.)	6.30	2.15	2.00
SRH6D28	6.70±0.30	6.70±0.30	3.00 (Max.)	9.50 (Max.)	2.00 (Typ.)	7.30	2.65	2.00

SRH8D43



Unit: mm

Type	A	B	C	D	E	F	G	H
SRH8D43	8.30	8.30	4.50	2.50	6.30	2.80	2.00	6.10

General Technical Data

Operating Temperature Range	-40°C~+100°C
Storage Temperature	40°C Max. , 70%RHMax.

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SMD Shielded Power Inductor

SRH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH2D11A Series				
SRH2D11A-1R5N-□	1.50μH±30%	100KHz	0.068Ω	0.90A
SRH2D11A-2R2M-□	2.20μH±20%	100KHz	0.098Ω	0.78A
SRH2D11A-3R3N-□	3.30μH±30%	100KHz	0.123Ω	0.60A
SRH2D11A-3R9N-□	3.90μH±30%	100KHz	0.160Ω	0.60A
SRH2D11A-4R7M-□	4.70μH±20%	100KHz	0.170Ω	0.50A
SRH2D11A-6R8N-□	6.80μH±30%	100KHz	0.260Ω	0.44A
SRH2D11A-100M-□	10.00μH±20%	100KHz	0.400Ω	0.35A
SRH2D11A-150M-□	15.00μH±20%	100KHz	0.600Ω	0.25A
SRH2D11A-220M-□	22.00μH±20%	100KHz	0.950Ω	0.16A

• Inductance drop ≤ 35% typical at IDC.

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH2D14A Series				
SRH2D14A-R47N-□A	0.47μH±30%	100KHz	0.040Ω	2.00A
SRH2D14A-1R5N-□A	1.50μH±30%	100KHz	0.063Ω	1.80A
SRH2D14A-1R8N-□A	1.80μH±30%	100KHz	0.075Ω	1.65A
SRH2D14A-2R2N-□A	2.20μH±30%	100KHz	0.094Ω	1.50A
SRH2D14A-2R7N-□A	2.70μH±30%	100KHz	0.106Ω	1.35A
SRH2D14A-3R3N-□A	3.30μH±30%	100KHz	0.125Ω	1.20A
SRH2D14A-3R9N-□A	3.90μH±30%	100KHz	0.138Ω	1.10A
SRH2D14A-4R1N-□A	4.10μH±30%	100KHz	0.169Ω	1.00A
SRH2D14A-4R7N-□A	4.70μH±30%	100KHz	0.169Ω	1.00A
SRH2D14A-5R6N-□A	5.60μH±30%	100KHz	0.188Ω	0.95A
SRH2D14A-6R8N-□A	6.80μH±30%	100KHz	0.213Ω	0.85A
SRH2D14A-8R2N-□A	8.20μH±30%	100KHz	0.281Ω	0.80A
SRH2D14A-100M-□A	10.00μH±20%	100KHz	0.294Ω	0.70A
SRH2D14A-120M-□A	12.00μH±20%	100KHz	0.394Ω	0.62A

• Inductance drop ≤ 35% typical at IDC.

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH2D18A Series				
SRH2D18A-1R5N-□	1.50μH±30%	100KHz	0.044Ω	1.90A
SRH2D18A-1R7M-□	1.70μH±20%	100KHz	0.044Ω	1.85A
SRH2D18A-2R2M-□	2.20μH±20%	100KHz	0.060Ω	1.60A
SRH2D18A-3R3M-□	3.30μH±20%	100KHz	0.086Ω	1.45A
SRH2D18A-4R7M-□	4.70μH±20%	100KHz	0.140Ω	1.20A
SRH2D18A-6R3M-□	6.30μH±20%	100KHz	0.160Ω	1.05A
SRH2D18A-6R8M-□	6.80μH±20%	100KHz	0.195Ω	1.00A
SRH2D18A-100M-□	10.00μH±20%	100KHz	0.245Ω	0.85A
SRH2D18A-150M-□	15.00μH±20%	100KHz	0.345Ω	0.70A
SRH2D18A-220M-□	22.00μH±20%	100KHz	0.650Ω	0.50A

• Inductance drop ≤ 35% typical at IDC.

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SMD Shielded Power Inductor

SRH Series

Electrical Characteristics

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH3D11A Series				
SRH3D11A-2R7N-□	2.70μH±30%	100KHz	0.078Ω	0.53A
SRH3D11A-4R7M-□	4.70μH±20%	100KHz	0.123Ω	0.40A
SRH3D11A-6R8N-□	6.80μH±30%	100KHz	0.180Ω	0.34A
SRH3D11A-8R2N-□	8.20μH±30%	100KHz	0.204Ω	0.32A
SRH3D11A-100M-□	10.00μH±20%	100KHz	0.240Ω	0.28A
SRH3D11A-120M-□	12.00μH±20%	100KHz	0.276Ω	0.25A
SRH3D11A-150M-□	15.00μH±20%	100KHz	0.372Ω	0.23A
SRH3D11A-180M-□	18.00μH±20%	100KHz	0.468Ω	0.21A
SRH3D11A-220M-□	22.00μH±20%	100KHz	0.540Ω	0.19A
SRH3D11A-270M-□	27.00μH±20%	100KHz	0.726Ω	0.17A
SRH3D11A-330M-□	33.00μH±20%	100KHz	0.822Ω	0.15A
SRH3D11A-390M-□	39.00μH±20%	100KHz	0.942Ω	0.14A

• Inductance drop ≤ 35% typical at IDC.

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH3D16A Series				
SRH3D16A-1R0N-□	1.00μH±30%	100KHz	0.040Ω	1.70A
SRH3D16A-1R5N-□	1.50μH±30%	100KHz	0.052Ω	1.60A
SRH3D16A-2R2N-□	2.20μH±30%	100KHz	0.072Ω	1.30A
SRH3D16A-3R3N-□	3.30μH±30%	100KHz	0.085Ω	1.10A
SRH3D16A-4R7M-□	4.70μH±20%	100KHz	0.105Ω	0.90A
SRH3D16A-6R8M-□	6.80μH±20%	100KHz	0.170Ω	0.74A
SRH3D16A-100M-□	10.00μH±20%	100KHz	0.210Ω	0.60A
SRH3D16A-150N-□	15.00μH±30%	100KHz	0.295Ω	0.52A
SRH3D16A-220M-□	22.00μH±20%	100KHz	0.430Ω	0.40A
SRH3D16A-330N-□	33.00μH±30%	100KHz	0.675Ω	0.32A

• Inductance drop ≤ 35% typical at IDC.

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH3D28A Series				
SRH3D28A-1R0N-□A	1.00μH±30%	100KHz	0.045Ω	2.50A
SRH3D28A-3R3N-□A	3.30μH±30%	100KHz	0.072Ω	1.85A
SRH3D28A-4R7N-□A	4.70μH±30%	100KHz	0.088Ω	1.62A
SRH3D28A-6R8N-□A	6.80μH±30%	100KHz	0.119Ω	1.32A
SRH3D28A-100N-□A	10.00μH±30%	100KHz	0.145Ω	1.18A
SRH3D28A-150N-□A	15.00μH±30%	100KHz	0.213Ω	1.02A
SRH3D28A-220N-□A	22.00μH±30%	100KHz	0.335Ω	0.74A
SRH3D28A-330N-□A	33.00μH±30%	100KHz	0.481Ω	0.63A
SRH3D28A-470N-□A	47.00μH±30%	100KHz	0.599Ω	0.56A

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SMD Shielded Power Inductor

SRH Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH4D18 Series				
SRH4D18-1R0N-□A	1.00μH±30%	7.96MHz	0.045Ω	2.50A
SRH4D18-1R5N-□A	1.50μH±30%	7.96MHz	0.060Ω	1.80A
SRH4D18-1R8N-□A	1.80μH±30%	7.96MHz	0.070Ω	1.70A
SRH4D18-2R2N-□A	2.20μH±30%	7.96MHz	0.075Ω	1.60A
SRH4D18-2R7N-□A	2.70μH±30%	7.96MHz	0.105Ω	1.50A
SRH4D18-3R3N-□A	3.30μH±30%	7.96MHz	0.110Ω	1.30A
SRH4D18-3R9N-□A	3.90μH±30%	7.96MHz	0.155Ω	1.20A
SRH4D18-4R7N-□A	4.70μH±30%	7.96MHz	0.162Ω	1.10A
SRH4D18-5R6N-□A	5.60μH±30%	7.96MHz	0.170Ω	1.00A
SRH4D18-6R3N-□A	6.30μH±30%	7.96MHz	0.180Ω	0.95A
SRH4D18-6R8N-□A	6.80μH±30%	7.96MHz	0.200Ω	0.85A
SRH4D18-8R2N-□A	8.20μH±30%	7.96MHz	0.245Ω	0.80A
SRH4D18-100N-□A	10.00μH±30%	100KHz	0.280Ω	0.75A
SRH4D18-120N-□A	12.00μH±30%	100KHz	0.320Ω	0.70A
SRH4D18-150N-□A	15.00μH±30%	100KHz	0.360Ω	0.65A
SRH4D18-180N-□A	18.00μH±30%	100KHz	0.400Ω	0.60A
SRH4D18-220N-□A	22.00μH±30%	100KHz	0.480Ω	0.55A
SRH4D18-270N-□A	27.00μH±30%	100KHz	0.570Ω	0.50A
SRH4D18-330N-□A	33.00μH±30%	100KHz	0.694Ω	0.45A
SRH4D18-390N-□A	39.00μH±30%	100KHz	0.800Ω	0.40A
SRH4D18-470N-□A	47.00μH±30%	100KHz	0.950Ω	0.38A
SRH4D18-560N-□A	56.00μH±30%	100KHz	1.080Ω	0.35A
SRH4D18-680N-□A	68.00μH±30%	100KHz	1.300Ω	0.34A
SRH4D18-101N-□A	100.00μH±30%	100KHz	2.000Ω	0.30A

• Inductance drop ≤ 35% typical at IDC.



SMD Shielded Power Inductor

SRH Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH4D28 Series				
SRH4D28-1R2N-□A	1.20μH±30%	100KHz	0.023Ω	4.10A
SRH4D28-1R8N-□A	1.80μH±30%	100KHz	0.035Ω	3.20A
SRH4D28-2R0N-□A	2.00μH±30%	100KHz	0.030Ω	3.00A
SRH4D28-2R2N-□A	2.20μH±30%	100KHz	0.031Ω	2.90A
SRH4D28-2R7N-□A	2.70μH±30%	100KHz	0.043Ω	2.80A
SRH4D28-3R3N-□A	3.30μH±30%	100KHz	0.049Ω	2.30A
SRH4D28-3R9N-□A	3.90μH±30%	100KHz	0.065Ω	2.10A
SRH4D28-4R7N-□A	4.70μH±30%	100KHz	0.072Ω	2.00A
SRH4D28-5R6N-□A	5.60μH±30%	100KHz	0.101Ω	1.70A
SRH4D28-6R8N-□A	6.80μH±30%	100KHz	0.109Ω	1.60A
SRH4D28-8R2N-□A	8.20μH±30%	100KHz	0.118Ω	1.50A
SRH4D28-100N-□A	10.00μH±30%	100KHz	0.128Ω	1.30A
SRH4D28-120N-□A	12.00μH±30%	100KHz	0.132Ω	1.10A
SRH4D28-150N-□A	15.00μH±30%	100KHz	0.149Ω	1.00A
SRH4D28-180N-□A	18.00μH±30%	100KHz	0.166Ω	0.99A
SRH4D28-220N-□A	22.00μH±30%	100KHz	0.235Ω	0.93A
SRH4D28-270N-□A	27.00μH±30%	100KHz	0.261Ω	0.83A
SRH4D28-330N-□A	33.00μH±30%	100KHz	0.331Ω	0.64A
SRH4D28-390N-□A	39.00μH±30%	100KHz	0.384Ω	0.70A
SRH4D28-470N-□A	47.00μH±30%	100KHz	0.587Ω	0.61A
SRH4D28-560N-□A	56.00μH±30%	100KHz	0.625Ω	0.54A
SRH4D28-680N-□A	68.00μH±30%	100KHz	0.699Ω	0.49A
SRH4D28-820N-□A	82.00μH±30%	100KHz	0.915Ω	0.49A
SRH4D28-101N-□A	100.00μH±30%	100KHz	1.020Ω	0.45A
SRH4D28-121N-□A	120.00μH±30%	100KHz	1.270Ω	0.40A
SRH4D28-151N-□A	150.00μH±30%	100KHz	1.350Ω	0.34A
SRH4D28-181N-□A	180.00μH±30%	100KHz	1.540Ω	0.32A
SRH4D28-221N-□A	220.00μH±30%	100KHz	2.000Ω	0.29A
SRH4D28-331N-□A	330.00μH±30%	100KHz	3.400Ω	0.24A
SRH4D28-391N-□A	390.00μH±30%	100KHz	3.560Ω	0.22A
SRH4D28-681N-□A	680.00μH±30%	100KHz	5.200Ω	0.17A

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SMD Shielded Power Inductor

SRH Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH5D28 Series				
SRH5D28-1R0N-□A	1.00μH±30%	10KHz	0.015Ω	4.20A
SRH5D28-1R5N-□A	1.50μH±30%	10KHz	0.015Ω	3.70A
SRH5D28-2R2N-□A	2.20μH±30%	10KHz	0.018Ω	3.10A
SRH5D28-2R5N-□A	2.50μH±30%	10KHz	0.022Ω	2.70A
SRH5D28-2R6N-□A	2.60μH±30%	10KHz	0.022Ω	2.60A
SRH5D28-2R7N-□A	2.70μH±30%	10KHz	0.024Ω	2.60A
SRH5D28-3R0N-□A	3.00μH±30%	10KHz	0.024Ω	2.50A
SRH5D28-3R3N-□A	3.30μH±30%	10KHz	0.027Ω	2.50A
SRH5D28-4R2N-□A	4.20μH±30%	10KHz	0.031Ω	2.20A
SRH5D28-4R3N-□A	4.30μH±30%	10KHz	0.041Ω	2.10A
SRH5D28-4R7N-□A	4.70μH±30%	10KHz	0.038Ω	2.00A
SRH5D28-5R0N-□A	5.00μH±30%	10KHz	0.038Ω	1.90A
SRH5D28-5R3N-□A	5.30μH±30%	10KHz	0.038Ω	1.90A
SRH5D28-6R2N-□A	6.20μH±30%	10KHz	0.045Ω	1.80A
SRH5D28-6R8N-□A	6.80μH±30%	10KHz	0.050Ω	1.60A
SRH5D28-8R2N-□A	8.20μH±30%	10KHz	0.053Ω	1.50A
SRH5D28-100N-□A	10.00μH±30%	10KHz	0.065Ω	1.40A
SRH5D28-120N-□A	12.00μH±30%	10KHz	0.076Ω	1.30A
SRH5D28-150N-□A	15.00μH±30%	10KHz	0.103Ω	1.10A
SRH5D28-180N-□A	18.00μH±30%	10KHz	0.110Ω	1.00A
SRH5D28-220N-□A	22.00μH±30%	10KHz	0.122Ω	0.92A
SRH5D28-270N-□A	27.00μH±30%	10KHz	0.175Ω	0.82A
SRH5D28-330N-□A	33.00μH±30%	10KHz	0.189Ω	0.75A
SRH5D28-390N-□A	39.00μH±30%	10KHz	0.212Ω	0.70A
SRH5D28-470N-□A	47.00μH±30%	10KHz	0.250Ω	0.62A
SRH5D28-560N-□A	56.00μH±30%	10KHz	0.305Ω	0.59A
SRH5D28-680N-□A	68.00μH±30%	10KHz	0.355Ω	0.52A
SRH5D28-820N-□A	82.00μH±30%	10KHz	0.463Ω	0.46A
SRH5D28-101N-□A	100.00μH±30%	10KHz	0.520Ω	0.42A
SRH5D28-181N-□A	180.00μH±30%	10KHz	1.050Ω	0.31A
SRH5D28-221N-□A	220.00μH±30%	10KHz	1.200Ω	0.30A
SRH5D28-331N-□A	330.00μH±30%	10KHz	1.700Ω	0.24A
SRH5D28-391N-□A	390.00μH±30%	10KHz	1.800Ω	0.22A
SRH5D28-471N-□A	470.00μH±30%	10KHz	2.500Ω	0.21A
SRH5D28-561N-□A	560.00μH±30%	10KHz	3.200Ω	0.17A

• Inductance drop ≤ 35% typical at IDC.

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SMD Shielded Power Inductor

SRH Series

Electrical Characteristics

AEC
Q200

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH6D28 Series				
SRH6D28-1R0N-□A	1.00μH±30%	10KHz	0.024Ω	5.30A
SRH6D28-1R5N-□A	1.50μH±30%	10KHz	0.020Ω	4.50A
SRH6D28-2R2N-□A	2.20μH±30%	10KHz	0.035Ω	3.40A
SRH6D28-3R0N-□A	3.00μH±30%	10KHz	0.024Ω	3.20A
SRH6D28-3R3N-□A	3.30μH±30%	10KHz	0.025Ω	3.10A
SRH6D28-3R9N-□A	3.90μH±30%	10KHz	0.027Ω	2.90A
SRH6D28-4R7N-□A	4.70μH±30%	10KHz	0.031Ω	2.40A
SRH6D28-5R0N-□A	5.00μH±30%	10KHz	0.031Ω	2.40A
SRH6D28-6R0N-□A	6.00μH±30%	10KHz	0.035Ω	2.25A
SRH6D28-6R2N-□A	6.20μH±30%	10KHz	0.051Ω	2.20A
SRH6D28-6R8N-□A	6.80μH±30%	10KHz	0.050Ω	2.15A
SRH6D28-7R3N-□A	7.30μH±30%	10KHz	0.054Ω	2.10A
SRH6D28-8R6N-□A	8.60μH±30%	10KHz	0.058Ω	1.85A
SRH6D28-100N-□A	10.00μH±30%	10KHz	0.065Ω	1.70A
SRH6D28-120N-□A	12.00μH±30%	10KHz	0.070Ω	1.50A
SRH6D28-150N-□A	15.00μH±30%	10KHz	0.084Ω	1.40A
SRH6D28-180N-□A	18.00μH±30%	10KHz	0.095Ω	1.32A
SRH6D28-220N-□A	22.00μH±30%	10KHz	0.128Ω	1.20A
SRH6D28-270N-□A	27.00μH±30%	10KHz	0.142Ω	1.05A
SRH6D28-330N-□A	33.00μH±30%	10KHz	0.165Ω	0.97A
SRH6D28-390N-□A	39.00μH±30%	10KHz	0.210Ω	0.90A
SRH6D28-470N-□A	47.00μH±30%	10KHz	0.238Ω	0.80A
SRH6D28-560N-□A	56.00μH±30%	10KHz	0.277Ω	0.73A
SRH6D28-680N-□A	68.00μH±30%	10KHz	0.304Ω	0.65A
SRH6D28-820N-□A	82.00μH±30%	10KHz	0.390Ω	0.60A
SRH6D28-101N-□A	100.00μH±30%	10KHz	0.535Ω	0.54A
SRH6D28-121N-□A	120.00μH±30%	10KHz	0.600Ω	0.45A
SRH6D28-221N-□A	220.00μH±30%	10KHz	1.300Ω	0.34A

• Inductance drop ≤ 35% typical at IDC.

Part Number	Inductance	Test Frequency	DC Resistance (RDC) Max.	Rated Current (IDC) Typ.
SRH8D43 Series				
SRH8D43-3R3M-□	3.30μH±20%	100KHz	0.019Ω	5.70A
SRH8D43-4R7M-□	4.70μH±20%	100KHz	0.022Ω	5.60A
SRH8D43-100M-□	10.00μH±20%	100KHz	0.036Ω	4.00A
SRH8D43-150M-□	15.00μH±20%	100KHz	0.053Ω	2.90A
SRH8D43-220M-□	22.00μH±20%	100KHz	0.075Ω	2.40A
SRH8D43-470M-□	47.00μH±20%	100KHz	0.150Ω	1.80A
SRH8D43-680M-□	68.00μH±20%	100KHz	0.240Ω	1.50A
SRH8D43-101M-□	100.00μH±20%	100KHz	0.353Ω	1.10A

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