

◆ SMD Power Inductors SDRH-D Series

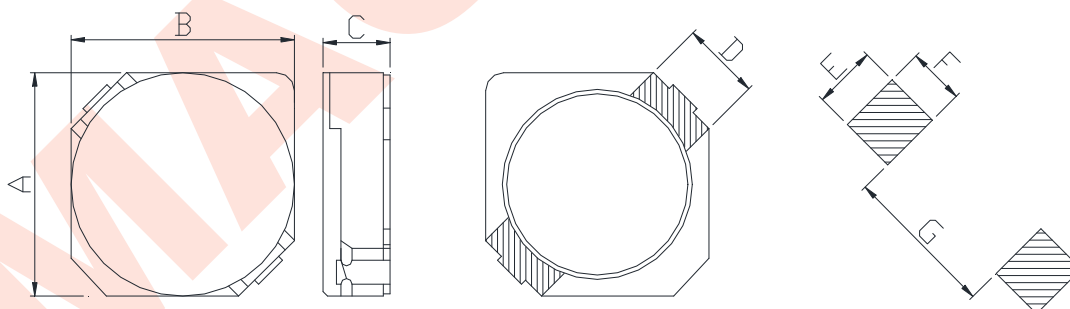


PRODUCT IDENTIFICATION

SDRH 5D28 L Z - 100 M
a b c d e f

- a: Series name
- b: Product dimensions (a x c)
- c: Sealing way (L: Cold seal Y: Heat seal)
- d: Lettering direction ▶
- e: Inductance Value
(1R0:1.0uH; 100: 10uH; 101:100uH)
- f: Inductance Tolerance (K:10% ; M:20% ; N:30%)

SHAPES AND DIMENSIONS



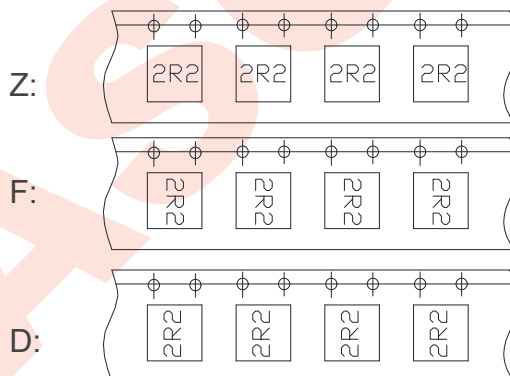
FEATURES

- ◆ Various high power inductors are superior to be high saturation.
- ◆ Suitable for surface mounting equipment.
- ◆ Excellent solderability and high heat resistance.

APPLICATIONS

- ◆ Ideally used in Power supply for VTR, OA equipment, Digital camera, LCD television set notebook PC, etc as DC-DC Converter.

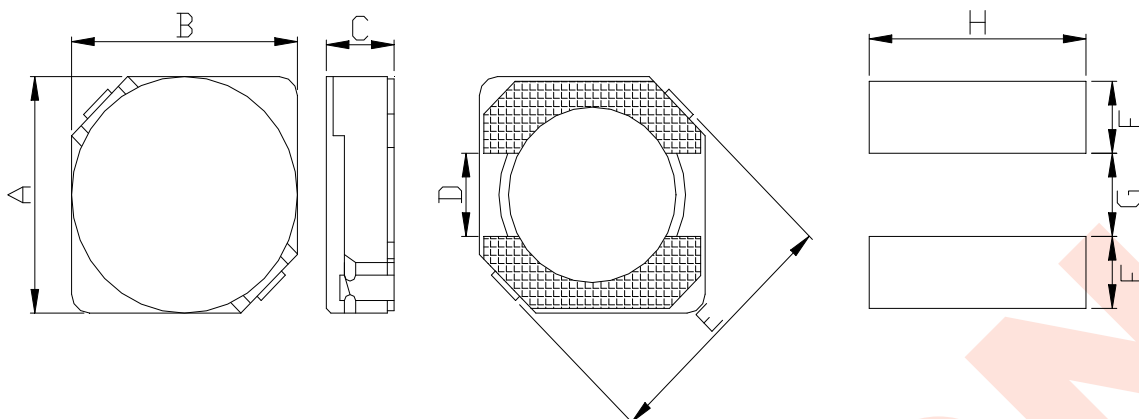
▶ Lettering direction



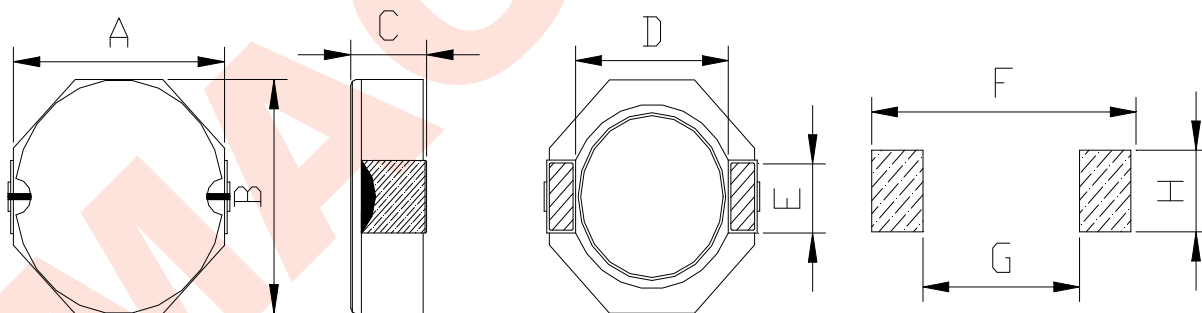
Series	Dimensions(mm)						
	A	B	C Max .	D	E Ref.	F Ref.	G Ref.
SDRH2D11	3.0±0.2	3.0±0.2	1.3	1.0±0.2	1.3	1.3	1.7
SDRH2D14	3.0±0.2	3.0±0.2	1.6	1.0±0.2	1.3	1.3	1.7
SDRH2D18	3.0±0.2	3.0±0.2	2.0	1.0±0.2	1.3	1.3	1.7
SDRH3D11	3.8±0.2	3.8±0.2	1.3	1.1±0.2	1.5	1.4	2.4

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SHAPES AND DIMENSIONS



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
SDRH3D16	3.8±0.2	3.8±0.2	1.8	1.15	5.2	1.6	1.2	4.4
SDRH3D18	3.8±0.2	3.8±0.2	2.0	1.15	5.2	1.6	1.2	4.4
SDRH3D28	3.8±0.2	3.8±0.2	3.1	1.15	5.2	1.6	1.2	4.4
SDRH4D18	4.7±0.3	4.7±0.3	2.0	1.50	6.9	1.9	1.5	5.3
SDRH4D28	4.7±0.3	4.7±0.3	3.0	1.50	6.9	1.9	1.5	5.3
SDRH5D18	5.7±0.3	5.7±0.3	2.0	2.00	8.2	2.15	2.0	6.3
SDRH5D28	5.7±0.3	5.7±0.3	3.0	2.00	8.2	2.15	2.0	6.3
SDRH6D28	6.7±0.3	6.7±0.3	3.0	2.00	9.5	2.65	2.0	7.3
SDRH6D38	6.7±0.3	6.7±0.3	4.0	2.00	9.5	2.65	2.0	7.3



Series	Dimensions(mm)							
	A	B	C Max .	D	E	F Ref.	G Ref.	H Ref.
SDRH8D28	8.0±0.3	8.0±0.3	3.0 Max.	6.3	2.5	10.1	6.1	2.8
SDRH8D38	8.0±0.3	8.0±0.3	4.0 Max.	6.3	2.5	10.1	6.1	2.8
SDRH8D43	8.0±0.3	8.0±0.3	4.5 Max.	6.3	2.5	10.1	6.1	2.8

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ELECTRICAL CHARACTERISTICS

Part Number	L (uH)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
SDRH2D11LZ-1R5N	1.5	100	0.068	0.90	1.48
SDRH2D11LZ-2R2N	2.2	100	0.098	0.78	1.27
SDRH2D11LZ-3R3N	3.3	100	0.123	0.60	1.02
SDRH2D11LZ-4R7N	4.7	100	0.170	0.50	0.88
SDRH2D11LZ-6R8N	6.8	100	0.260	0.44	0.78
SDRH2D11LZ-100N	10	100	0.400	0.35	0.65

Part Number	L (uH)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
SDRH2D14LZ-1R2N	1.2	100	0.049	1.95	2.75
SDRH2D14LZ-1R5N	1.5	100	0.063	1.80	2.00
SDRH2D14LZ-1R8N	1.8	100	0.075	1.65	1.80
SDRH2D14LZ-2R2N	2.2	100	0.094	1.50	1.60
SDRH2D14LZ-2R7N	2.7	100	0.106	1.35	1.40
SDRH2D14LZ-3R3N	3.3	100	0.125	1.20	1.24
SDRH2D14LZ-3R9N	3.9	100	0.138	1.10	1.12
SDRH2D14LZ-4R7N	4.7	100	0.169	1.00	1.00
SDRH2D14LZ-5R6N	5.6	100	0.188	0.95	0.98
SDRH2D14LZ-6R8N	6.8	100	0.213	0.85	0.92
SDRH2D14LZ-8R2N	8.2	100	0.281	0.80	0.80
SDRH2D14LZ-100N	10	100	0.294	0.70	0.76
SDRH2D14LZ-120N	12	100	0.394	0.62	0.64

Part Number	L (uH)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
SDRH2D18LZ-2R2N	2.2	100	0.041	0.85	2.30
SDRH2D18LZ-3R3N	3.3	100	0.054	0.75	2.10
SDRH2D18LZ-4R7N	4.7	100	0.078	0.63	1.65
SDRH2D18LZ-6R8N	6.8	100	0.106	0.52	1.32
SDRH2D18LZ-100N	10	100	0.180	0.43	1.00
SDRH2D18LZ-150N	15	100	0.220	0.35	0.80
SDRH2D18LZ-220N	22	100	0.320	0.30	0.68
SDRH2D18LZ-330N	33	100	0.460	0.24	0.56
SDRH2D18LZ-470N	47	100	0.660	0.20	0.48

Note:

Saturation Current: DC current at which the inductance drops approximate 35% from its value without current;

Heat Rating Current : DC current that causes the temperature rise ($\Delta T=40^{\circ}\text{C}$) from 25°C ambient

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
SDRH3D11LZ-2R7NT	2.7	100	0.078	0.53	1.82
SDRH3D11LZ-4R7NT	4.7	100	0.123	0.40	1.38
SDRH3D11LZ-6R8NT	6.8	100	0.180	0.34	1.05
SDRH3D11LZ-8R2NT	8.2	100	0.204	0.32	0.93
SDRH3D11LZ-100NT	10.	100	0.240	0.28	0.90
SDRH3D11LZ-120NT	12	100	0.276	0.25	0.81
SDRH3D11LZ-150NT	15	100	0.372	0.23	0.68
SDRH3D11LZ-180NT	18	100	0.468	0.21	0.58
SDRH3D11LZ-220NT	22	100	0.540	0.19	0.53
SDRH3D11LZ-270NT	27	100	0.726	0.17	0.48
SDRH3D11LZ-330NT	33	100	0.822	0.15	0.41
SDRH3D11LZ-390NT	39	100	0.942	0.14	0.40

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH3D16LZ-R47N	0.47	100	0.035	2.75
SDRH3D16LZ-1R0N	1.0	100	0.050	1.90
SDRH3D16LZ-1R5N	1.5	100	0.052	1.55
SDRH3D16LZ-2R2N	2.2	100	0.072	1.20
SDRH3D16LZ-3R3N	3.3	100	0.085	1.10
SDRH3D16LZ-4R7N	4.7	100	0.105	0.90
SDRH3D16LZ-6R8N	6.8	100	0.170	0.73
SDRH3D16LZ-100N	10	100	0.210	0.55
SDRH3D16LZ-150N	15	100	0.295	0.45
SDRH3D16LZ-220N	22	100	0.430	0.40
SDRH3D16LZ-330N	33	100	0.675	0.32

Note:

Rated current: The DC current at which the inductance decreases to 65 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower ($T_a = 25^{\circ}\text{C}$)

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH3D18LZ-1R0N	1.0	100	0.050	2.80
SDRH3D18LZ-2R2N	2.2	100	0.063	1.80
SDRH3D18LZ-3R0N	3.0	100	0.069	1.60
SDRH3D18LZ-4R7N	4.7	100	0.108	1.35
SDRH3D18LZ-6R8N	6.8	100	0.150	1.10
SDRH3D18LZ-100N	10	100	0.205	0.90
SDRH3D18LZ-120N	12	100	0.275	0.80
SDRH3D18LZ-150N	15	100	0.302	0.75
SDRH3D18LZ-220N	22	100	0.424	0.60
SDRH3D18LZ-330N	33	100	0.640	0.50
SDRH3D18LZ-470N	47	100	0.964	0.40

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH3D28LZ-100N	10	100	0.092	0.50
SDRH3D28LZ-120N	12	100	0.100	0.45
SDRH3D28LZ-150N	15	100	0.113	0.40
SDRH3D28LZ-180N	18	100	0.125	0.35
SDRH3D28LZ-220N	22	100	0.146	0.33
SDRH3D28LZ-270N	27	100	0.176	0.29
SDRH3D28LZ-330N	33	100	0.214	0.28
SDRH3D28LZ-390N	39	100	0.225	0.25
SDRH3D28LZ-470N	47	100	0.304	0.23
SDRH3D28LZ-560N	56	100	0.324	0.20
SDRH3D28LZ-680N	68	100	0.472	0.18
SDRH3D28LZ-820N	82	100	0.539	0.17
SDRH3D28LZ-101M	100	100	0.608	0.16
SDRH3D28LZ-121M	120	100	0.757	0.13
SDRH3D28LZ-151M	150	100	0.882	0.12
SDRH3D28LZ-181M	180	100	1.130	0.11
SDRH3D28LZ-221M	220	100	1.269	0.10

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH4D18LZ-1R0N	1.0	100	0.045	1.72
SDRH4D18LZ-2R2N	2.2	100	0.075	1.32
SDRH4D18LZ-2R7N	2.7	100	0.105	1.28
SDRH4D18LZ-3R3N	3.3	100	0.110	1.04
SDRH4D18LZ-3R9N	3.9	100	0.155	0.88
SDRH4D18LZ-4R7N	4.7	100	0.162	0.84
SDRH4D18LZ-5R6N	5.6	100	0.170	0.80
SDRH4D18LZ-6R8N	6.8	100	0.200	0.76
SDRH4D18LZ-8R2N	8.2	100	0.245	0.68
SDRH4D18LZ-100N	10	100	0.200	0.61
SDRH4D18LZ-120N	12	100	0.210	0.56
SDRH4D18LZ-150N	15	100	0.240	0.50
SDRH4D18LZ-180N	18	100	0.338	0.48
SDRH4D18LZ-220N	22	100	0.397	0.41
SDRH4D18LZ-270N	27	100	0.441	0.35
SDRH4D18LZ-330N	33	100	0.694	0.32
SDRH4D18LZ-390N	39	100	0.709	0.30
SDRH4D18LZ-470N	47	100	0.922	0.28
SDRH4D18LZ-560N	56	100	1.080	0.26
SDRH4D18LZ-680N	68	100	1.300	0.24
SDRH4D18LZ-820N	82	100	1.550	0.22
SDRH4D18LZ-101M	100	100	1.730	0.20
SDRH4D18LZ-121M	120	100	2.390	0.18
SDRH4D18LZ-151M	150	100	2.670	0.15
SDRH4D18LZ-181M	180	100	4.000	0.14

Note:

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH4D28LZ-1R2N	1.2	100	0.024	2.56
SDRH4D28LZ-1R8N	1.8	100	0.028	2.20
SDRH4D28LZ-2R2N	2.2	100	0.031	2.04
SDRH4D28LZ-2R7N	2.7	100	0.043	1.60
SDRH4D28LZ-3R3N	3.3	100	0.049	1.57
SDRH4D28LZ-3R9N	3.9	100	0.065	1.44
SDRH4D28LZ-4R7N	4.7	100	0.072	1.32
SDRH4D28LZ-5R6N	5.6	100	0.101	1.17
SDRH4D28LZ-6R8N	6.8	100	0.109	1.12
SDRH4D28LZ-8R2N	8.2	100	0.118	1.04
SDRH4D28LZ-100N	10	100	0.128	1.00
SDRH4D28LZ-120N	12	100	0.132	0.84
SDRH4D28LZ-150N	15	100	0.149	0.76
SDRH4D28LZ-180N	18	100	0.166	0.72
SDRH4D28LZ-220N	22	100	0.235	0.70
SDRH4D28LZ-270N	27	100	0.261	0.58
SDRH4D28LZ-330N	33	100	0.378	0.56
SDRH4D28LZ-390N	39	100	0.384	0.50
SDRH4D28LZ-470N	47	100	0.587	0.48
SDRH4D28LZ-560N	56	100	0.625	0.41
SDRH4D28LZ-680N	68	100	0.699	0.35
SDRH4D28LZ-820N	82	100	0.915	0.32
SDRH4D28LZ-101M	100	100	1.020	0.29
SDRH4D28LZ-121M	120	100	1.270	0.27
SDRH4D28LZ-151M	150	100	1.350	0.24
SDRH4D28LZ-181M	180	100	1.540	0.22
SDRH4D28LZ-221M	220	100	1.720	0.20
SDRH4D28LZ-271M	270	100	1.950	0.16
SDRH4D28LZ-331M	330	100	2.660	0.14
SDRH4D28LZ-391M	390	100	2.830	0.13

Note:

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ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH5D18LZ-4R1N	4.1	100	0.057	1.95
SDRH5D18LZ-6R2N	6.2	100	0.096	1.40
SDRH5D18LZ-100N	10	100	0.124	1.20
SDRH5D18LZ-120N	12	100	0.153	1.10
SDRH5D18LZ-150N	15	100	0.196	0.97
SDRH5D18LZ-180N	18	100	0.210	0.85
SDRH5D18LZ-220N	22	100	0.290	0.80
SDRH5D18LZ-330N	33	100	0.386	0.65
SDRH5D18LZ-470N	47	100	0.595	0.54
SDRH5D18LZ-680N	68	100	0.840	0.43
SDRH5D18LZ-820N	82	100	0.978	0.41
SDRH5D18LZ-101M	100	100	1.200	0.36
SDRH5D18LZ-121M	120	100	1.500	0.33
SDRH5D18LZ-151M	150	100	1.710	0.31
SDRH5D18LZ-181M	180	100	2.240	0.28

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH5D28LZ-1R0N	1.0	100	0.015	2.80
SDRH5D28LZ-2R2N	2.2	100	0.023	2.60
SDRH5D28LZ-5R6N	5.6	100	0.038	1.90
SDRH5D28LZ-8R2N	8.2	100	0.053	1.60
SDRH5D28LZ-100N	10	100	0.065	1.30
SDRH5D28LZ-120N	12	100	0.076	1.20
SDRH5D28LZ-180N	18	100	0.110	1.00
SDRH5D28LZ-220N	22	100	0.122	0.90
SDRH5D28LZ-330N	33	100	0.189	0.75
SDRH5D28LZ-470N	47	100	0.260	0.62
SDRH5D28LZ-680N	68	100	0.355	0.52
SDRH5D28LZ-101M	100	100	0.520	0.42
SDRH5D28LZ-151M	150	100	0.680	0.35
SDRH5D28LZ-181M	180	100	0.930	0.32
SDRH5D28LZ-221M	220	100	1.150	0.30
SDRH5D28LZ-271M	270	100	1.560	0.27
SDRH5D28LZ-331M	330	100	1.980	0.25

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Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH6D28LZ-3R0N	3.0	10	0.024	3.00
SDRH6D28LZ-3R9N	3.9	10	0.027	2.60
SDRH6D28LZ-5R0N	5.0	10	0.031	2.40
SDRH6D28LZ-6R0N	6.0	10	0.035	2.25
SDRH6D28LZ-7R3N	7.3	10	0.054	2.10
SDRH6D28LZ-8R6N	8.6	10	0.058	1.85
SDRH6D28LZ-100N	10	10	0.065	1.70
SDRH6D28LZ-120N	12	10	0.070	1.55
SDRH6D28LZ-150N	15	10	0.084	1.40
SDRH6D28LZ-180N	18	10	0.095	1.32
SDRH6D28LZ-220N	22	10	0.128	1.20
SDRH6D28LZ-270N	27	10	0.142	1.05
SDRH6D28LZ-330N	33	10	0.165	0.97
SDRH6D28LZ-390N	39	10	0.210	0.86
SDRH6D28LZ-470N	47	10	0.238	0.80
SDRH6D28LZ-560N	56	10	0.277	0.73
SDRH6D28LZ-680N	68	10	0.304	0.65
SDRH6D28LZ-820N	82.0	10	0.390	0.60
SDRH6D28LZ-101M	100	10	0.535	0.54
SDRH6D28LZ-121M	120	10	0.750	0.51
SDRH6D28LZ-151M	150	10	0.950	0.47
SDRH6D28LZ-181M	180	10	1.200	0.41
SDRH6D28LZ-221M	220	10	1.500	0.37
SDRH6D28LZ-271M	270	10	1.700	0.33
SDRH6D28LZ-331M	330	10	2.150	0.28
SDRH6D28LZ-391M	390	10	2.250	0.27
SDRH6D28LZ-471M	470	10	3.150	0.21

Note:

Rated current: The DC current at which the inductance decreases to 65 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower ($T_a = 25^{\circ}\text{C}$)

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Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Rated Current (A)
SDRH6D38LZ-3R0N	3.0	10	0.020	3.50
SDRH6D38LZ-5R0N	5.0	10	0.024	2.90
SDRH6D38LZ-6R2N	6.2	10	0.027	2.50
SDRH6D38LZ-7R3N	7.3	10	0.031	2.30
SDRH6D38LZ-8R6N	8.6	10	0.034	2.20
SDRH6D38LZ-100N	10	10	0.038	2.00
SDRH6D38LZ-120N	12	10	0.053	1.70
SDRH6D38LZ-150N	15	10	0.057	1.60
SDRH6D38LZ-180N	18	10	0.092	1.50
SDRH6D38LZ-220N	22	10	0.096	1.30
SDRH6D38LZ-270N	27	10	0.109	1.20
SDRH6D38LZ-330N	33	10	0.124	1.10
SDRH6D38LZ-390N	39	10	0.138	1.00
SDRH6D38LZ-470N	47	10	0.155	0.95
SDRH6D38LZ-560N	56	10	0.202	0.85
SDRH6D38LZ-680N	68	10	0.234	0.75
SDRH6D38LZ-820N	82	10	0.324	0.70
SDRH6D38LZ-101M	100	10	0.358	0.65
SDRH6D38LZ-121M	120	10	0.470	0.59
SDRH6D38LZ-151M	150	10	0.580	0.54
SDRH6D38LZ-181M	180	10	0.690	0.49
SDRH6D38LZ-221M	220	10	0.890	0.43
SDRH6D38LZ-271M	270	10	1.290	0.40
SDRH6D38LZ-331M	330	10	1.700	0.37
SDRH6D38LZ-391M	390	10	1.750	0.34
SDRH6D38LZ-471M	470	10	2.200	0.32
SDRH6D38LZ-561M	560	10	2.850	0.29
SDRH6D38LZ-681M	680	10	3.200	0.25

Note:

Rated current: The DC current at which the inductance decreases to 65 % of its initial value or when $\Delta t = 40^{\circ}\text{C}$, whichever is lower ($T_a = 25^{\circ}\text{C}$)

◆ SMD Power Inductors SDRH-D Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
SDRH8D28LZ-1R0N	1.0	100	0.011	6.50	7.00
SDRH8D28LZ-2R5N	2.5	100	0.016	4.50	6.40
SDRH8D28LZ-3R3N	3.3	100	0.019	4.00	6.00
SDRH8D28LZ-4R7N	4.7	100	0.025	3.40	4.50
SDRH8D28LZ-7R3N	7.3	100	0.039	2.80	3.40
SDRH8D28LZ-100N	10	100	0.047	2.50	3.20
SDRH8D28LZ-150N	15	100	0.069	1.90	2.35
SDRH8D28LZ-220N	22	100	0.099	1.60	1.85
SDRH8D28LZ-330N	33	100	0.156	1.30	1.49
SDRH8D28LZ-470N	47	100	0.195	1.15	1.30
SDRH8D28LZ-680N	68	100	0.286	0.92	0.98
SDRH8D28LZ-101M	100	100	0.430	0.75	0.80

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
SDRH8D38LZ-1R8N	1.8	100	0.016	7.00	6.80
SDRH8D38LZ-2R5N	2.5	100	0.018	6.50	6.00
SDRH8D38LZ-3R3N	3.3	100	0.024	5.00	5.20
SDRH8D38LZ-4R7N	4.7	100	0.029	4.60	4.40
SDRH8D38LZ-6R0N	6.0	100	0.032	4.20	4.00
SDRH8D38LZ-100N	10	100	0.048	3.00	3.20
SDRH8D38LZ-150N	15	100	0.067	2.75	2.50
SDRH8D38LZ-220N	22	100	0.105	2.30	2.00
SDRH8D38LZ-330N	33	100	0.157	1.75	1.60
SDRH8D38LZ-470N	47	100	0.189	1.52	1.42
SDRH8D38LZ-680N	68	100	0.290	1.30	1.08
SDRH8D38LZ-101M	100	100	0.410	1.05	0.88

Note:

Saturation Current: DC current at which the inductance drops approximate 35% from its value without current;

Heat Rating Current : DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient

◆ SMD Power Inductors SDRH-D Series

ELECTRICAL CHARACTERISTICS

Part Number	L (μ H)	Test Freq. (KHz)	DCR Max. (Ω)	Saturation Current (A)	Heat Rating Current (A)
SDRH8D43LZ-1R0N	1.0	100	0.010	8.50	6.60
SDRH8D43LZ-1R2N	1.2	100	0.013	8.00	6.20
SDRH8D43LZ-2R2N	2.2	100	0.014	7.00	5.50
SDRH8D43LZ-3R9N	3.9	100	0.019	5.90	4.50
SDRH8D43LZ-4R7N	4.7	100	0.022	5.60	4.10
SDRH8D43LZ-6R8N	6.8	100	0.025	4.40	3.90
SDRH8D43LZ-100N	10	100	0.036	4.00	3.20
SDRH8D43LZ-150N	15	100	0.053	2.90	2.30
SDRH8D43LZ-220N	22	100	0.075	2.60	1.80
SDRH8D43LZ-330N	33	100	0.125	2.20	1.40
SDRH8D43LZ-470N	47	100	0.150	1.80	1.30
SDRH8D43LZ-680N	68	100	0.240	1.50	1.00
SDRH8D43LZ-101M	100	100	0.360	1.30	0.80

Note:

Saturation Current: DC current at which the inductance drops approximate 35% from its value without current;

Heat Rating Current : DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 25°C ambient