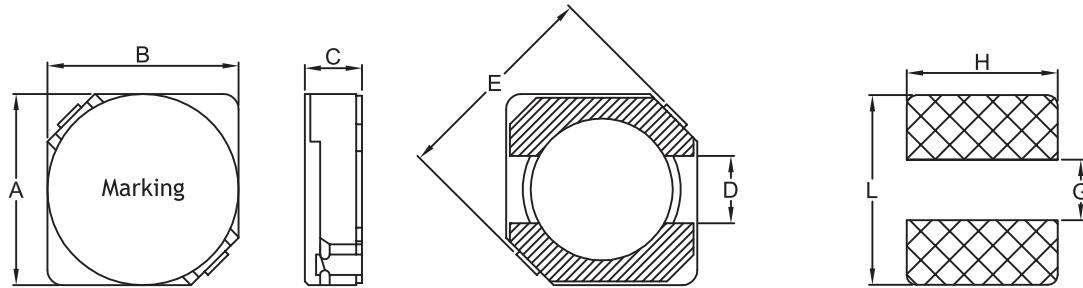


SHAPES AND DIMENSIONS



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

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH3D16-R47NT	0.47	100	0.035	2.75	3.00
SDRH3D16-1R0NT	1.0	100	0.050	1.90	2.20
SDRH3D16-1R5NT	1.5	100	0.052	1.55	1.80
SDRH3D16-2R2NT	2.2	100	0.072	1.20	1.45
SDRH3D16-3R3NT	3.3	100	0.085	1.10	1.32
SDRH3D16-4R7NT	4.7	100	0.105	0.90	1.18
SDRH3D16-6R8NT	6.8	100	0.170	0.73	0.95
SDRH3D16-100NT	10	100	0.210	0.55	0.82
SDRH3D16-150NT	15	100	0.295	0.45	0.70
SDRH3D16-220NT	22	100	0.430	0.40	0.60
SDRH3D16-330NT	33	100	0.675	0.32	0.51

Note:

Isat: DC current at which the inductance drops 35% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH3D18-1R0NT	1.0	100	0.050	2.80	2.40
SDRH3D18-2R2NT	2.2	100	0.063	1.80	2.00
SDRH3D18-3R0NT	3.0	100	0.069	1.60	1.80
SDRH3D18-4R7NT	4.7	100	0.108	1.35	1.35
SDRH3D18-6R8NT	6.8	100	0.150	1.10	1.10
SDRH3D18-100NT	10	100	0.205	0.90	0.90
SDRH3D18-120NT	12	100	0.275	0.80	0.80
SDRH3D18-150NT	15	100	0.302	0.75	0.75
SDRH3D18-220NT	22	100	0.424	0.60	0.60
SDRH3D18-330NT	33	100	0.640	0.50	0.45
SDRH3D18-470NT	47	100	0.964	0.40	0.35

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Isat.(A)	Irms.(A)
SDRH3D28-100NT	10	100	0.299	0.50	1.52
SDRH3D28-120NT	12	100	0.352	0.45	1.48
SDRH3D28-150NT	15	100	0.398	0.40	1.44
SDRH3D28-180NT	18	100	0.450	0.35	1.37
SDRH3D28-220NT	22	100	0.489	0.33	1.28
SDRH3D28-270NT	27	100	0.530	0.29	1.18
SDRH3D28-330NT	33	100	0.590	0.28	1.15
SDRH3D28-390NT	39	100	0.635	0.25	1.00
SDRH3D28-470NT	47	100	0.699	0.23	0.81
SDRH3D28-560NT	56	100	0.750	0.20	0.76
SDRH3D28-680NT	68	100	0.830	0.18	0.60
SDRH3D28-820NT	82	100	0.970	0.17	0.58
SDRH3D28-101MT	100	100	1.150	0.16	0.52
SDRH3D28-121MT	120	100	1.360	0.13	0.50
SDRH3D28-151MT	150	100	1.520	0.12	0.48
SDRH3D28-181MT	180	100	1.730	0.11	0.42
SDRH3D28-221MT	220	100	1.930	0.10	0.36

Note:

Isat: DC current at which the inductance drops 35% from its value without current.

Irms: DC current that causes the temperature rise ($\Delta T = 40^{\circ}\text{C}$) from 20°C ambient

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDRH4D18-1R0NT	1.0	100	0.045	1.72
SDRH4D18-2R2NT	2.2	100	0.075	1.32
SDRH4D18-2R7NT	2.7	100	0.105	1.28
SDRH4D18-3R3NT	3.3	100	0.110	1.04
SDRH4D18-3R9NT	3.9	100	0.155	0.88
SDRH4D18-4R7NT	4.7	100	0.162	0.84
SDRH4D18-5R6NT	5.6	100	0.170	0.80
SDRH4D18-6R8NT	6.8	100	0.200	0.76
SDRH4D18-8R2NT	8.2	100	0.245	0.68
SDRH4D18-100NT	10	100	0.280	0.61
SDRH4D18-120NT	12	100	0.320	0.56
SDRH4D18-150NT	15	100	0.360	0.50
SDRH4D18-180NT	18	100	0.400	0.48
SDRH4D18-220NT	22	100	0.480	0.41
SDRH4D18-270NT	27	100	0.570	0.35
SDRH4D18-330NT	33	100	0.694	0.32
SDRH4D18-390NT	39	100	0.800	0.30
SDRH4D18-470NT	47	100	0.950	0.28
SDRH4D18-560NT	56	100	1.080	0.26
SDRH4D18-680NT	68	100	1.300	0.24
SDRH4D18-820NT	82	100	1.550	0.22
SDRH4D18-101MT	100	100	1.730	0.20
SDRH4D18-121MT	120	100	2.390	0.18
SDRH4D18-151MT	150	100	2.670	0.15
SDRH4D18-181MT	180	100	4.000	0.14

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($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDRH4D28-1R2NT	1.2	100	0.024	2.56
SDRH4D28-1R8NT	1.8	100	0.028	2.20
SDRH4D28-2R2NT	2.2	100	0.031	2.04
SDRH4D28-2R7NT	2.7	100	0.043	1.60
SDRH4D28-3R3NT	3.3	100	0.049	1.57
SDRH4D28-3R9NT	3.9	100	0.065	1.44
SDRH4D28-4R7NT	4.7	100	0.072	1.32
SDRH4D28-5R6NT	5.6	100	0.101	1.17
SDRH4D28-6R8NT	6.8	100	0.109	1.12
SDRH4D28-8R2NT	8.2	100	0.118	1.04
SDRH4D28-100NT	10	100	0.128	1.00
SDRH4D28-120NT	12	100	0.132	0.84
SDRH4D28-150NT	15	100	0.149	0.76
SDRH4D28-180NT	18	100	0.166	0.72
SDRH4D28-220NT	22	100	0.235	0.70
SDRH4D28-270NT	27	100	0.261	0.58
SDRH4D28-330NT	33	100	0.378	0.56
SDRH4D28-390NT	39	100	0.384	0.50
SDRH4D28-470NT	47	100	0.587	0.48
SDRH4D28-560NT	56	100	0.625	0.41
SDRH4D28-680NT	68	100	0.699	0.35
SDRH4D28-820NT	82	100	0.915	0.32
SDRH4D28-101MT	100	100	1.020	0.29
SDRH4D28-121MT	120	100	1.270	0.27
SDRH4D28-151MT	150	100	1.350	0.24
SDRH4D28-181MT	180	100	1.540	0.22
SDRH4D28-221MT	220	100	1.720	0.20
SDRH4D28-271MT	270	100	1.950	0.16
SDRH4D28-331MT	330	100	2.660	0.14
SDRH4D28-391MT	390	100	2.830	0.13

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($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDRH5D18-4R1NT	4.1	10	0.057	1.95
SDRH5D18-5R4NT	5.4	10	0.076	1.60
SDRH5D18-6R2NT	6.2	10	0.096	1.40
SDRH5D18-8R9NT	8.9	10	0.116	1.25
SDRH5D18-100NT	10	10	0.124	1.20
SDRH5D18-120NT	12	10	0.153	1.10
SDRH5D18-150NT	15	10	0.196	0.97
SDRH5D18-180NT	18	10	0.210	0.85
SDRH5D18-220NT	22	10	0.290	0.80
SDRH5D18-330NT	33	10	0.386	0.65
SDRH5D18-470NT	47	10	0.595	0.54
SDRH5D18-680NT	68	10	0.840	0.43
SDRH5D18-820NT	82	10	0.978	0.41
SDRH5D18-101MT	100	10	1.200	0.36
SDRH5D18-121MT	120	10	1.500	0.33
SDRH5D18-151MT	150	10	1.710	0.31
SDRH5D18-181MT	180	10	2.240	0.28
SDRH5D18-221MT	220	10	2.440	0.23
SDRH5D18-331MT	330	10	4.340	0.18

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDRH5D28-2R6NT	2.6	10	0.018	2.60
SDRH5D28-3R0NT	3.0	10	0.024	2.40
SDRH5D28-4R2NT	4.2	10	0.031	2.20
SDRH5D28-5R6NT	5.6	10	0.038	1.90
SDRH5D28-6R2NT	6.2	10	0.045	1.80
SDRH5D28-8R2NT	8.2	10	0.053	1.60
SDRH5D28-100NT	10	10	0.065	1.30
SDRH5D28-120NT	12	10	0.076	1.20
SDRH5D28-150NT	15	10	0.103	1.10
SDRH5D28-180NT	18	10	0.110	1.00
SDRH5D28-220NT	22	10	0.122	0.90
SDRH5D28-270NT	27	10	0.175	0.85
SDRH5D28-330NT	33	10	0.189	0.75
SDRH5D28-470NT	47	10	0.260	0.62
SDRH5D28-560NT	56	10	0.305	0.58
SDRH5D28-680NT	68	10	0.355	0.52
SDRH5D28-820MT	82	10	0.463	0.46
SDRH5D28-101MT	100	10	0.520	0.42

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($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDRH5D28-151MT	150	10	0.680	0.35
SDRH5D28-181MT	180	10	0.930	0.32
SDRH5D28-221MT	220	10	1.150	0.30
SDRH5D28-271MT	270	10	1.560	0.27
SDRH5D28-331MT	330	10	1.980	0.25
SDRH5D28-391MT	390	10	2.500	0.22
SDRH5D28-471MT	470	10	2.700	0.20
SDRH5D28-561MT	560	10	3.120	0.18
SDRH5D28-681MT	680	10	4.150	0.16

Part Number	L(uH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDRH6D28-3R0NT	3.0	10	0.024	3.00
SDRH6D28-3R9NT	3.9	10	0.027	2.60
SDRH6D28-5R0NT	5.0	10	0.031	2.40
SDRH6D28-6R0NT	6.0	10	0.035	2.25
SDRH6D28-7R3NT	7.3	10	0.054	2.10
SDRH6D28-8R6NT	8.6	10	0.058	1.85
SDRH6D28-100NT	10	10	0.065	1.70
SDRH6D28-120NT	12	10	0.070	1.55
SDRH6D28-150NT	15	10	0.084	1.40
SDRH6D28-180NT	18	10	0.095	1.32
SDRH6D28-220NT	22	10	0.128	1.20
SDRH6D28-270NT	27	10	0.142	1.05
SDRH6D28-330NT	33	10	0.165	0.97
SDRH6D28-390NT	39	10	0.210	0.86
SDRH6D28-470NT	47	10	0.238	0.80
SDRH6D28-560NT	56	10	0.277	0.73
SDRH6D28-680NT	68	10	0.304	0.65
SDRH6D28-820NT	82	10	0.390	0.60
SDRH6D28-101MT	100	10	0.535	0.54
SDRH6D28-121MT	120	10	0.750	0.51
SDRH6D28-151MT	150	10	0.950	0.47
SDRH6D28-181MT	180	10	1.200	0.41
SDRH6D28-221MT	220	10	1.500	0.37
SDRH6D28-271MT	270	10	1.700	0.33
SDRH6D28-331MT	330	10	2.150	0.28
SDRH6D28-391MT	390	10	2.250	0.27
SDRH6D28-471MT	470	10	3.150	0.21
SDRH6D28-561MT	560	10	3.750	0.20
SDRH6D28-681MT	680	10	5.150	0.18

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($T_a = 20^{\circ}\text{C}$)

ELECTRICAL CHARACTERISTICS

Part Number	L(μH)	Test Freq.(KHz)	DCR max.(Ω)	Rated Current(A)
SDRH6D38-3R0NT	3.0	10	0.020	3.50
SDRH6D38-5R0NT	5.0	10	0.024	2.90
SDRH6D38-6R2NT	6.2	10	0.027	2.50
SDRH6D38-7R3NT	7.3	10	0.031	2.30
SDRH6D38-8R6NT	8.6	10	0.034	2.20
SDRH6D38-100NT	10	10	0.038	2.00
SDRH6D38-120NT	12	10	0.053	1.70
SDRH6D38-150NT	15	10	0.057	1.60
SDRH6D38-180NT	18	10	0.092	1.50
SDRH6D38-220NT	22	10	0.096	1.30
SDRH6D38-270NT	27	10	0.109	1.20
SDRH6D38-330NT	33	10	0.124	1.10
SDRH6D38-390NT	39	10	0.138	1.00
SDRH6D38-470NT	47	10	0.155	0.95
SDRH6D38-560NT	56	10	0.202	0.85
SDRH6D38-680NT	68	10	0.234	0.75
SDRH6D38-820NT	82	10	0.324	0.70
SDRH6D38-101MT	100	10	0.358	0.65
SDRH6D38-121MT	120	10	0.470	0.59
SDRH6D38-151MT	150	10	0.580	0.54
SDRH6D38-181MT	180	10	0.690	0.49
SDRH6D38-221MT	220	10	0.890	0.43
SDRH6D38-271MT	270	10	1.290	0.40
SDRH6D38-331MT	330	10	1.700	0.37
SDRH6D38-391MT	390	10	1.750	0.34
SDRH6D38-471MT	470	10	2.200	0.32
SDRH6D38-561MT	560	10	2.850	0.29
SDRH6D38-681MT	680	10	3.200	0.25
SDRH6D38-821MT	820	10	4.050	0.22
SDRH6D38-102MT	1000	10	5.700	0.20

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($T_a = 20^{\circ}\text{C}$)