High Current Toroidal Inductors

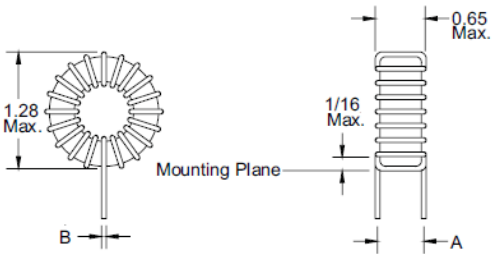
Vertical PCB Mounting

Key Features

- Vertical PC Mounting for Board Layout Optimization.
- Wide Range Of Inductance and Current ratings.
- Distributed Air Gap For High Energy Storage.
- High Efficiency Reduced Core Loss.
- Self-Shielding For Low Magnetic Radiation.
- High Current Carrying Capability.

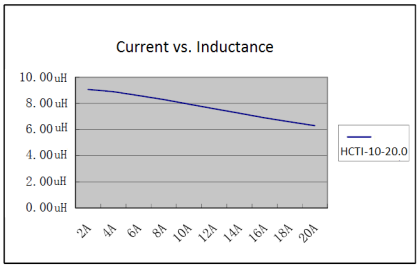
Applications

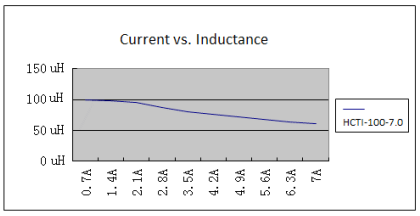
- SMPS Energy Storage Inductors.
- EMI/RFI Filtering Inductors.
- DC-DC Converter Chokes.

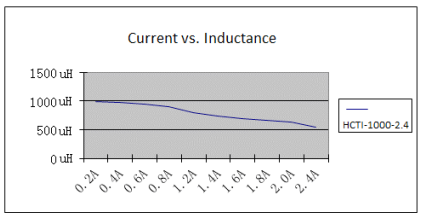


Notes

(1) Dimensions are in inches.
(2) Current causing 30°C max temperature rise.
(3) Operating Temperature Range of -55 to +105°C.
(4) Leads tinned to within 1/16 of an inch above Mounting Plane.
(5) Lead Length of 0.50 inches







Electro-Mechanical Characteristics

Part Number	L (u H) ±15% @ 1KHz	L(u H) ±15% @ I-rated	DC Resistance Ω MAX	I-rated DC Current Amps (2)	Dimension A (inches) Nominal	Dimension B (inches) Nominal
HCTI-10-20.0	10	6.7	0.005	20.0	0.56	0.066
HCTI-12-19.1	12	7.8	0.005	19.1	0.56	0.066
HCTI-15-18.0	15	9.5	0.006	18.0	0.56	0.066
HCTI-18-17.2	18	11.1	0.006	17.2	0.56	0.066
HCTI-22-16.4	22	13.2	0.007	16.4	0.56	0.066
HCTI-27-15.6	27	15.7	0.008	15.6	0.56	0.066
HCTI-33-11.7	33	21.3	0.013	11.7	0.53	0.053
HCTI-39-11.2	39	24.7	0.014	11.2	0.53	0.053
HCTI-47-10.7	47	29.0	0.016	10.7	0.53	0.053
HCTI-56-10.2	56	33.7	0.017	10.2	0.53	0.053
HCTI-68-7.7	68	45.2	0.030	7.70	0.52	0.042
HCTI-100-7.0	100	63.1	0.037	7.00	0.52	0.042
HCTI-120-6.7	120	73.9	0.040	6.70	0.52	0.042
HCTI-150-5.0	150	101.4	0.071	5.00	0.51	0.034
HCTI-180-4.8	180	118.9	0.078	4.80	0.51	0.034
HCTI-220-5.8	220	123.8	0.054	5.80	0.56	0.042
HCTI-270-5.5	270	147.2	0.060	5.50	0.56	0.042
HCTI-330-5.2	330	174.1	0.067	5.20	0.56	0.042
HCTI-390-5.0	390	200.2	0.072	5.00	0.56	0.042
HCTI-470-3.8	470	271.4	0.130	3.80	0.54	0.034
HCTI-560-3.6	560	314.8	0.140	3.60	0.54	0.034
HCTI-680-3.4	680	370.7	0.150	3.40	0.54	0.034
HCTI-820-2.6	820	500.9	0.270	2.60	0.53	0.027
HCTI-1000-2.4	1000	593.6	0.300	2.40	0.53	0.027

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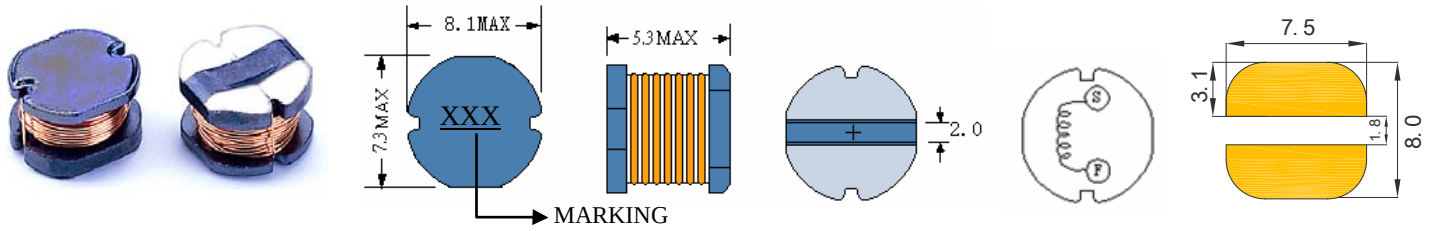
SC75

SMD POWER INDUCTORS

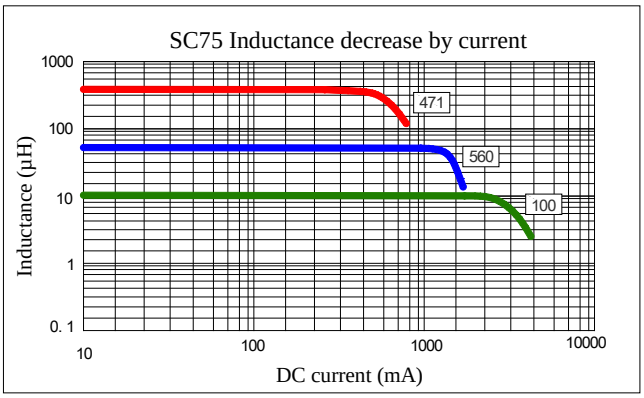


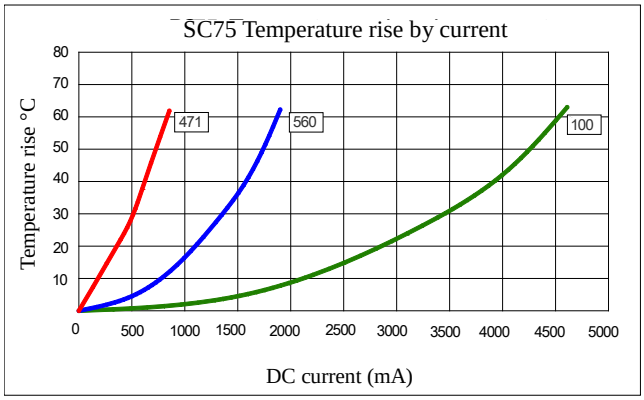
● Features

1. Open frame construction.

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SC75-100	10	2.52MHZ	0.07	2.30	3.20
SC75-120	12	2.52MHZ	0.08	2.00	3.00
SC75-150	15	2.52MHZ	0.09	1.80	2.75
SC75-180	18	2.52MHZ	0.10	1.60	2.40
SC75-220	22	2.52MHZ	0.11	1.50	2.10
SC75-270	27	2.52MHZ	0.12	1.30	1.85
SC75-330	33	2.52MHZ	0.15	1.20	1.70
SC75-390	39	2.52MHZ	0.16	1.10	1.55
SC75-470	47	2.52MHZ	0.18	1.10	1.47
SC75-560	56	2.52MHZ	0.24	0.94	1.30
SC75-680	68	2.52MHZ	0.28	0.85	1.12
SC75-820	82	2.52MHZ	0.37	0.78	1.03
SC75-101	100	1KHZ	0.43	0.72	0.90
SC75-121	120	1KHZ	0.47	0.66	0.86
SC75-151	150	1KHZ	0.64	0.58	0.80
SC75-181	180	1KHZ	0.71	0.51	0.76
SC75-221	220	1KHZ	0.96	0.49	0.68
SC75-271	270	1KHZ	1.11	0.42	0.60
SC75-331	330	1KHZ	1.26	0.40	0.52
SC75-391	390	1KHZ	1.77	0.36	0.50
SC75-471	470	1KHZ	1.96	0.34	0.46





(1). Inductance tolerance ±20% tested at 0.25V, 0ADC and 25℃.

(2). DCR measured at 25℃.

(3). The DC current at which the inductance decreases by 10% from its initial value.

(4). The DC current that results in a 40℃ temperature rise from 25℃ ambient.

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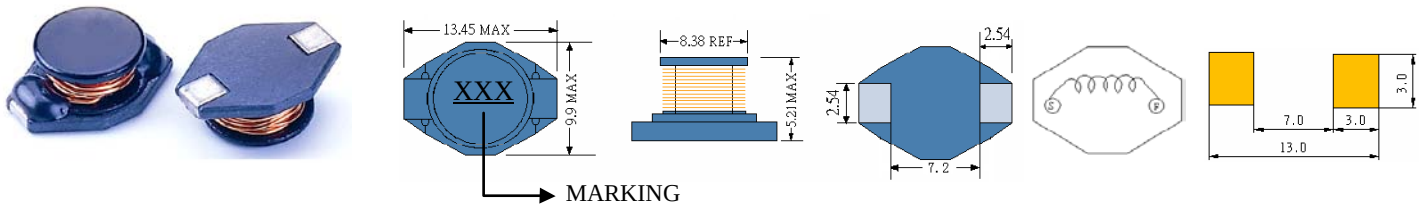
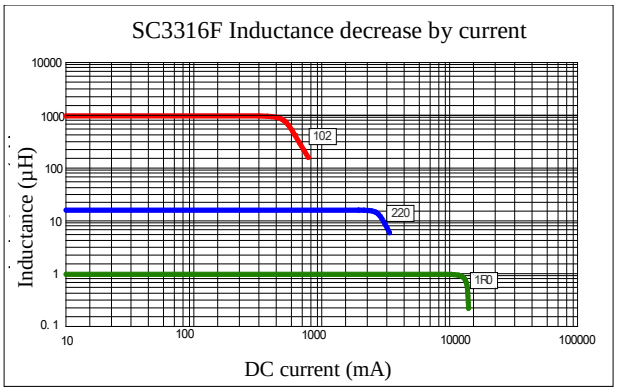


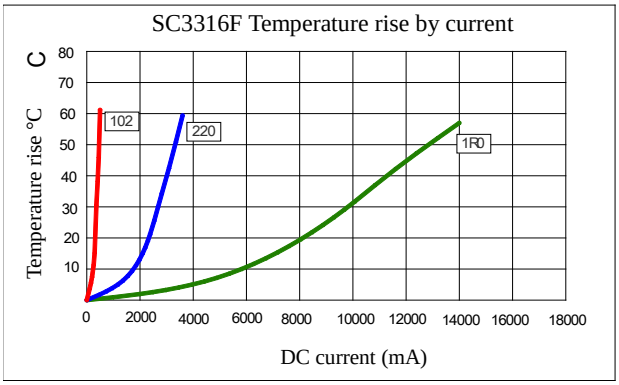
● Features

1. Open frame construction
2 Excellent Power Density
3 Engineered to Provide High Efficiency

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SC3316F-1R0	1.0	100KHZ	9m	9.0	9.80
SC3316F-1R5	1.5	100KHZ	10m	8.0	9.20
SC3316F-2R2	2.2	100KHZ	13m	7.0	7.00
SC3316F 3R3	3.3	100KHZ	15m	6.4	6.50
SC3316F-4R7	4.7	100KHZ	18m	5.4	5.60
SC3316F-6R8	6.8	100KHZ	27m	4.6	4.50
SC3316F-100	10	100KHZ	38m	3.8	3.90
SC3316F-150	15	100KHZ	56m	3.0	3.10
SC3316F-220	22	100KHZ	85m	2.6	2.70
SC3316F-330	33	100KHZ	0.10	2.0	2.10
SC3316F-470	47	100KHZ	0.16	1.6	1.80
SC3316F-680	68	100KHZ	0.22	1.4	1.50
SC3316F-101	100	100KHZ	0.28	1.2	1.30
SC3316F-151	150	100KHZ	0.40	1.0	1.00
SC3316F-221	220	100KHZ	0.61	0.8	0.80
SC3316F-331	330	100KHZ	1.02	0.6	0.68
SC3316F-471	470	100KHZ	1.27	0.5	0.60
SC3316F-681	680	100KHZ	2.20	0.4	0.42
SC3316F-102	1000	100KHZ	3.00	0.3	0.34





(1). Inductance tolerance for 1.0uH~3.3uH: ±30%, for 4.7uH~1000uH: ±20%. Tested at 0.25V, 0ADC and 25℃.
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 10% from its initial value.
(4). The DC current that results in a 40℃ temperature rise from 25℃ ambient.

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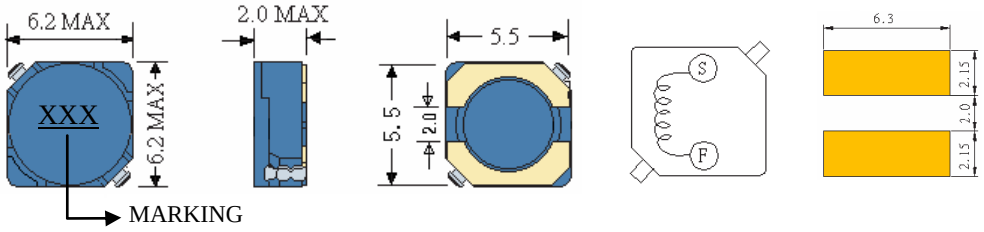
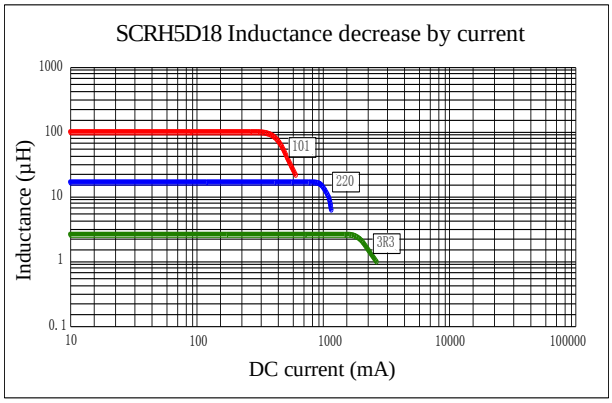


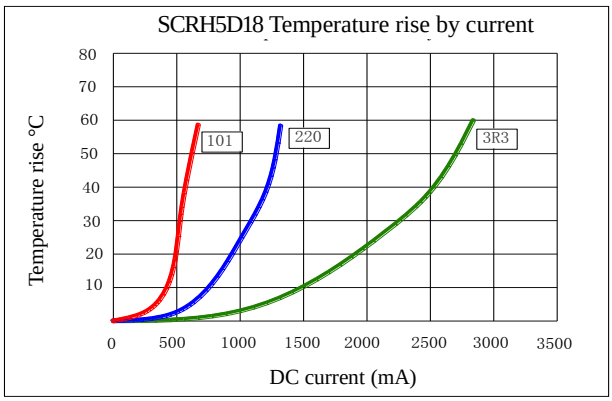
● Features

1. Magnetically shielded construction
2 Excellent Power Density
3 Engineered to Provide High Efficiency

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCRH5D18-3R3	3.3	10KHZ	50m	2.15	2.15
SCRH5D18-4R1	4.1	10KHZ	57m	1.95	1.95
SCRH5D18-4R7	4.7	10KHZ	64m	1.75	1.90
SCRH5D18-5R4	5.4	10KHZ	76m	1.60	1.85
SCRH5D18-6R2	6.2	10KHZ	96m	1.40	1.75
SCRH5D18-8R9	8.9	10KHZ	116m	1.25	1.57
SCRH5D18-100	10	10KHZ	124m	1.20	1.41
SCRH5D18-120	12	10KHZ	153m	1.10	1.37
SCRH5D18-150	15	10KHZ	196m	0.97	1.34
SCRH5D18-180	18	10KHZ	210m	0.85	1.10
SCRH5D18-220	22	10KHZ	290m	0.80	1.00
SCRH5D18-270	27	10KHZ	330m	0.75	0.90
SCRH5D18-330	33	10KHZ	386m	0.65	0.81
SCRH5D18-390	39	10KHZ	520 m	0.57	0.77
SCRH5D18-470	47	10KHZ	595m	0.54	0..73
SCRH5D18-560	56	10KHZ	665m	0.50	0.65
SCRH5D18-680	68	10KHZ	840m	0.43	0.62
SCRH5D18-820	82	10KHZ	978m	0.41	0.55
SCRH5D18-101	100	10KHZ	1.20	0.36	0.50





(1). Inductance tolerance ±30% tested at 0.25V, 0ADC and 25℃
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 35% from its initial value.
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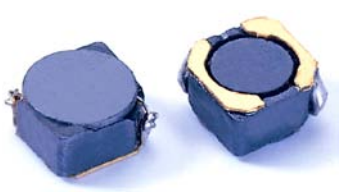

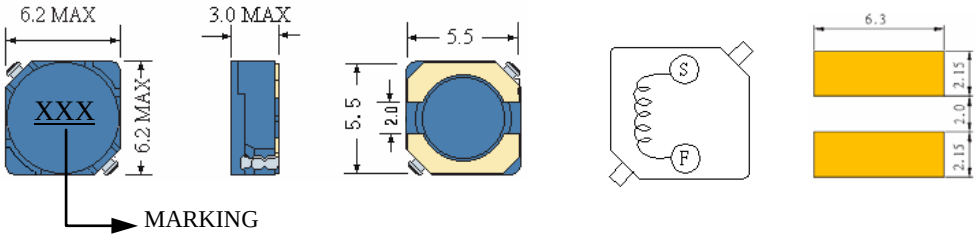

● Features

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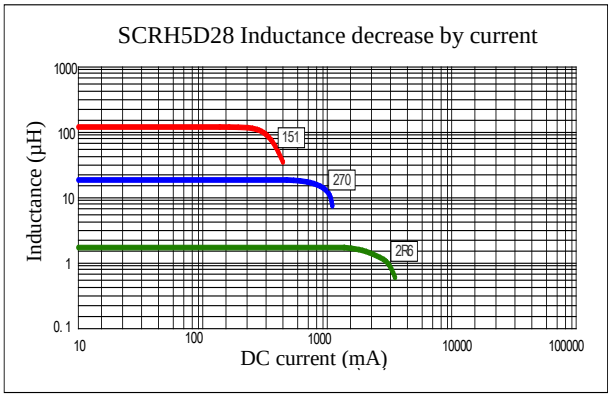
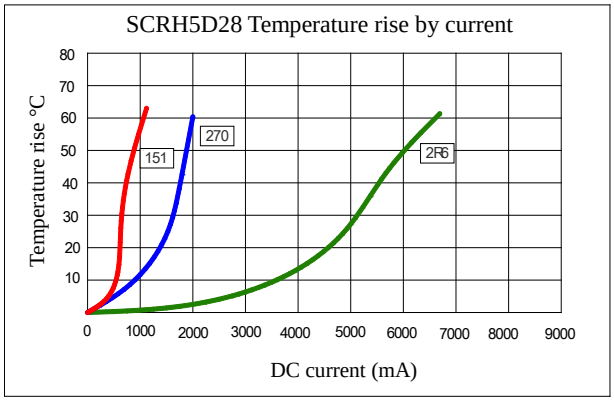
ELECTRICAL CHARACTERISTICS

Part NumSer	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCRH5D28-2R6	2.6	10KHZ	18m	2.60	4.90
SCRH5D28-3R0	3.0	10KHZ	24m	2.30	4.40
SCRH5D28-4R2	4.2	10KHZ	31m	2.00	4.00
SCRH5D28-5R3	5.3	10KHZ	38m	1.80	3.60
SCRH5D28-6R2	6.2	10KHZ	45m	1.65	3.24
SCRH5D28-8R2	8.2	10KHZ	53m	1.44	2.92
SCRH5D28-100	10	10KHZ	65m	1.30	2.62
SCRH5D28-120	12	10KHZ	76m	1.15	2.35
SCRH5D28-150	15	10KHZ	103m	1.00	2.11
SCRH5D28-180	18	10KHZ	110m	0.95	1.89
SCRH5D28-220	22	10KHZ	122m	0.86	1.70
SCRH5D28-270	27	10KHZ	175m	0.79	1.53
SCRH5D28-330	33	10KHZ	189m	0.72	1.37
SCRH5D28-390	39	10KHZ	212m	0.65	1.23
SCRH5D28-470	47	10KHZ	260m	0.60	1.10
SCRH5D28-560	56	10KHZ	305m	0.55	1.04
SCRH5D28-680	68	10KHZ	355m	0.50	0.98
SCRH5D28-820	82	10KHZ	463m	0.45	0.93
SCRH5D28-101	100	10KHZ	520m	0.40	0.84
SCRH5D28-121	120	10KHZ	850m	0.31	0.75
SCRH5D28-151	150	10KHZ	956m	0.26	0.68





(1). Inductance tolerance ±30% tested at 0.25V, 0ADC and 25℃
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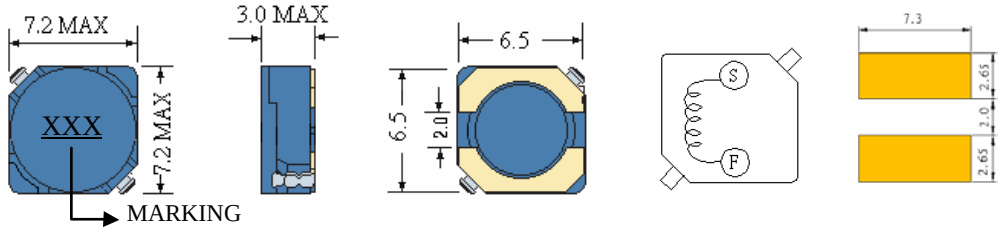

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CHARACTERISTICS

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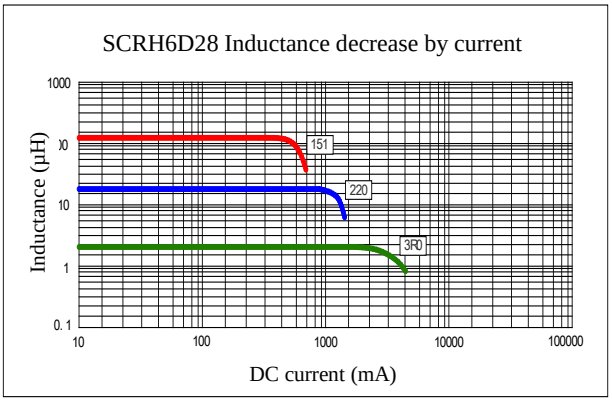
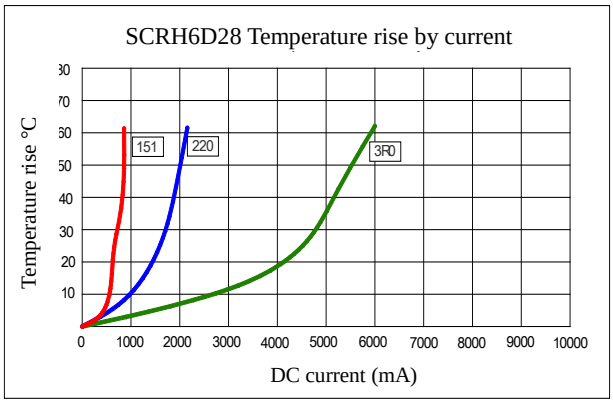
SCRH6D28-3R0	3.0	10KHZ	24m	3.00	4.70
SCRH6D28-3R9	3.9	10KHZ	27m	2.60	4.50
SCRH6D28-5R0	5.0	10KHZ	31m	2.40	4.00
SCRH6D28-6R0	6.0	10KHZ	35m	2.25	3.60
SCRH6D28-7R3	7.3	10KHZ	54m	2.10	3.23
SCRH6D28-8R6	8.6	10KHZ	58m	1.85	2.90
SCRH6D28-100	10	10KHZ	65m	1.70	2.60
SCRH6D28-120	12	10KHZ	70m	1.55	2.34
SCRH6D28-150	15	10KHZ	84m	1.40	2.10
SCRH6D28-180	18	10KHZ	95m	1.32	1.89
SCRH6D28-220	22	10KHZ	128m	1.20	1.70
SCRH6D28-270	27	10KHZ	142m	1.05	1.62
SCRH6D28-330	33	10KHZ	165m	0.97	1.37
SCRH6D28-390	39	10KHZ	210m	0.86	1.23
SCRH6D28-470	47	10KHZ	238m	0.80	1.17
SCRH6D28-560	56	10KHZ	277m	0.73	1.11
SCRH6D28-680	68	10KHZ	304m	0.65	0.99
SCRH6D28-820	82	10KHZ	390m	0.60	0.89
SCRH6D28-101	100	10KHZ	535m	0.54	0.80
SCRH6D28-121	120	10KHZ	580m	0.45	0.72
SCRH6D28-151	150	10KHZ	615m	0.42	0.68





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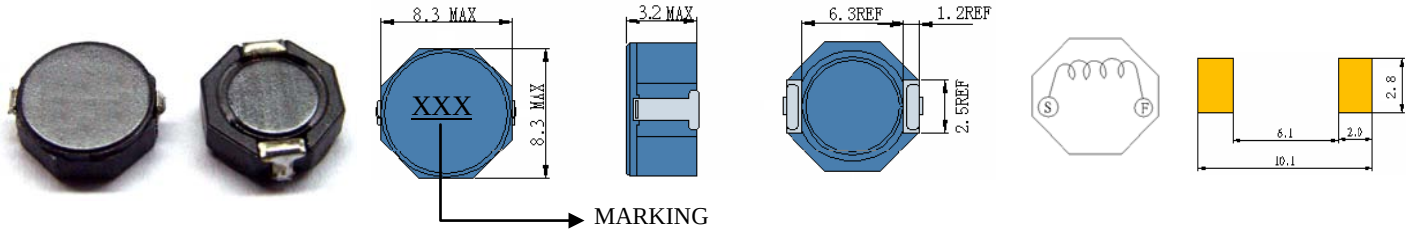

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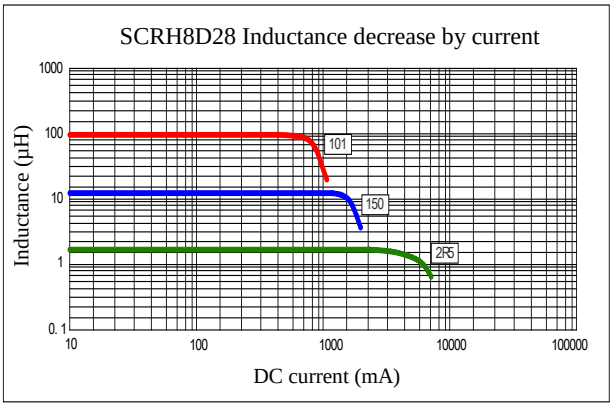
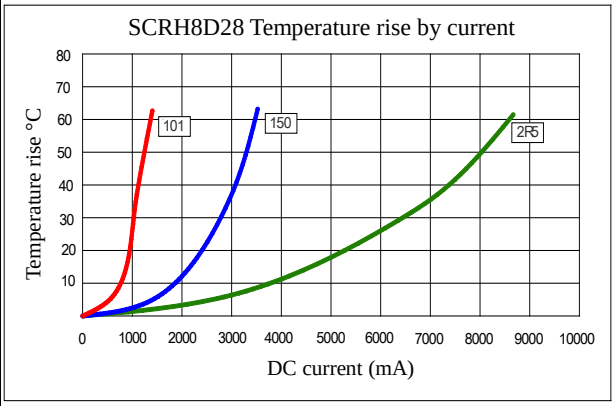
ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCRH8D28-2R5	2.5	100KHZ	15.6m	4.50	6.40
SCRH8D28-3R3	3.3	100KHZ	18.2m	4.00	4.80
SCRH8D28-4R7	4.7	100KHZ	24.7m	3.40	4.32
SCRH8D28-7R3	7.3	100KHZ	39m	2.80	3.60
SCRH8D28-100	10	100KHZ	47m	2.30	3.25
SCRH8D28-150	15	100KHZ	69m	1.90	2.80
SCRH8D28-220	22	100KHZ	99m	1.60	1.85
SCRH8D28-330	33	100KHZ	156m	1.30	1.66
SCRH8D28-470	47	100KHZ	195m	1.15	1.30
SCRH8D28-680	68	100KHZ	286m	0.95	1.17
SCRH8D28-101	100	100KHZ	430m	0.75	1.05





(1). Inductance tolerance ±30% tested at 0.25V, 0ADC and 25℃
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 35% from its initial value.
(4). The DC current that results in a 40℃ temperature rise from 25℃ambient.

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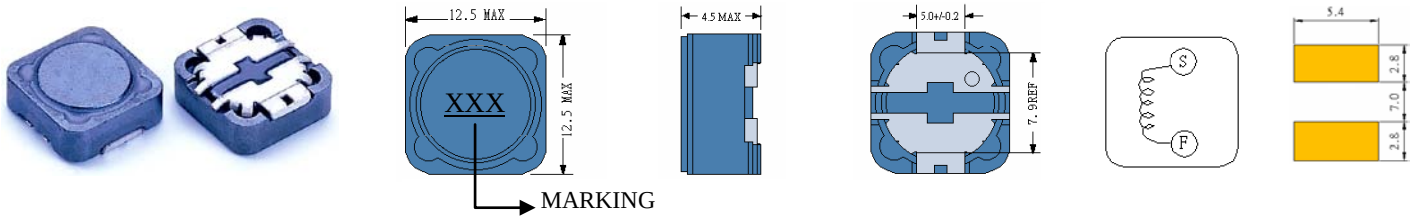
SCRH124

SMD POWER INDUCTORS

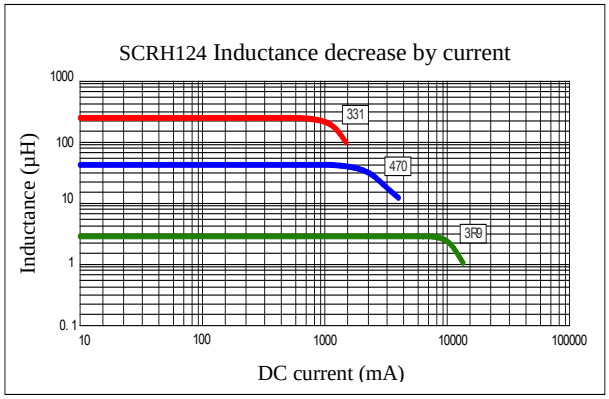


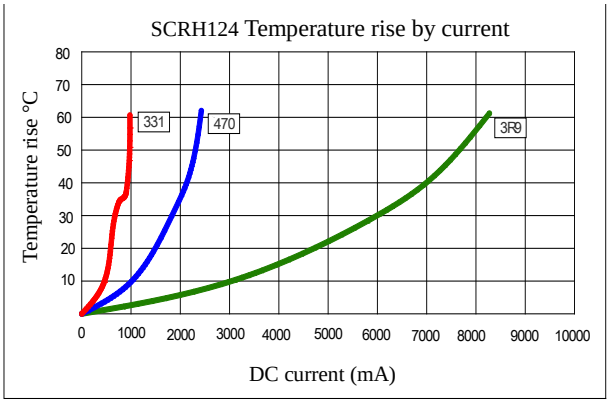
● Features

1. Magnetically shielded construction
2 Excellent Power Density
3 Engineered to Provide High Efficiency

CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCRH124-3R9	3.9	100KHZ	15m	6.5	6.0
SCRH124-4R7	4.7	100KHZ	18m	5.7	5.4
SCRH124-6R8	6.8	100KHZ	23m	4.9	4.8
SCRH124-8R2	8.2	100KHZ	26m	4.6	4.4
SCRH124-100	10	100KHZ	28m	4.5	4.1
SCRH124-120	12	100KHZ	38m	4.0	3.9
SCRH124-150	15	100KHZ	50m	3.2	3.5
SCRH124-180	18	100KHZ	57m	3.1	3.1
SCRH124-220	22	100KHZ	66m	2.9	3.0
SCRH124-270	27	100KHZ	80m	2.8	2.7
SCRH124-330	33	100KHZ	97m	2.7	2.43
SCRH124-390	39	100KHZ	132m	2.1	2.07
SCRH124-470	47	100KHZ	160m	1.9	1.87
SCRH124-560	56	100KHZ	190m	1.8	1.77
SCRH124-680	68	100KHZ	220m	1.5	1.60
SCRH124-820	82	100KHZ	260m	1.3	1.44
SCRH124-101	100	100KHZ	308m	1.2	1.36
SCRH124-121	120	100KHZ	380m	1.1	1.23
SCRH124-151	150	100KHZ	530m	0.95	1.16
SCRH124-181	180	100KHZ	620m	0.85	1.05
SCRH124-221	220	100KHZ	700m	0.80	0.95
SCRH124-271	270	100KHZ	870m	0.60	0.86
SCRH124-331	330	100KHZ	990m	0.50	0.78





(1). Inductance tolerance for 3.9uH~8.2uH: ±30%, for 10uH~330uH: ±20%. Tested at 0.25V, 0ADC and 25℃

(2). DCR measured at 25℃.

(3). The DC current at which the inductance decreases by 25% from its initial value.

(4). The DC current that results in a 40℃ temperature rise from 25℃ambient.

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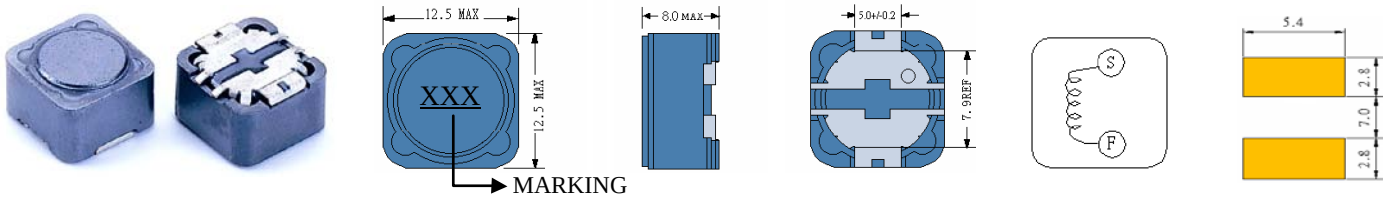
SCRH127

SMD POWER INDUCTORS

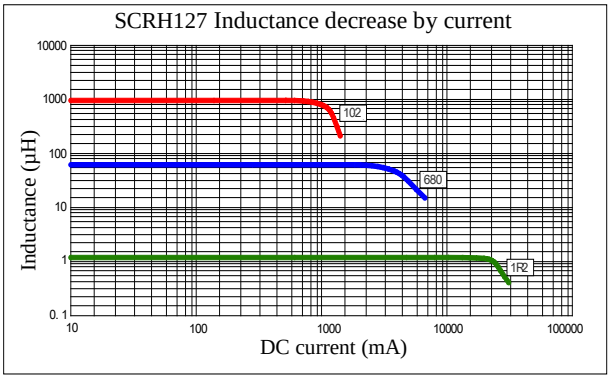


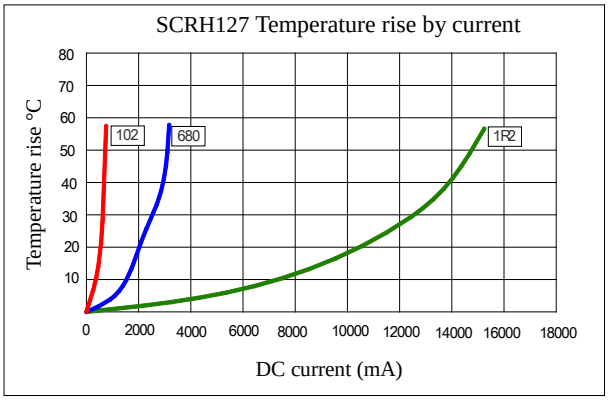
- Features

1. Magnetically shielded construction
2 Excellent Power Density
3 Engineered to Provide High Efficiency

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCRH127-1R2	1.2	100KHZ	7.0m	9.80	12.0
SCRH127-2R4	2.4	100KHZ	11.5m	8.00	10.8
SCRH127-3R5	3.5	100KHZ	13.5m	7.50	9.20
SCRH127-4R7	4.7	100KHZ	15.8m	6.80	7.80
SCRH127-6R1	6.1	100KHZ	17.6m	6.60	5.80
SCRH127-7R6	7.6	100KHZ	20.0m	5.90	6.30
SCRH127-100	10	1KHZ	21.6m	5.40	5.67
SCRH127-120	12	1KHZ	24.3m	4.90	5.10
SCRH127-150	15	1KHZ	27.0m	4.50	4.85
SCRH127-180	18	1KHZ	39.2m	3.90	4.36
SCRH127-220	22	1KHZ	43.2m	3.60	4.00
SCRH127-270	27	1KHZ	45.9m	3.40	3.60
SCRH127-330	33	1KHZ	64.8m	3.00	3.24
SCRH127-390	39	1KHZ	72.9m	2.75	2.91
SCRH127-470	47	1KHZ	0.10	2.50	2.62
SCRH127-560	56	1KHZ	0.11	2.35	2.35
SCRH127-680	68	1KHZ	0.14	2.10	2.23
SCRH127-820	82	1KHZ	0.16	1.95	2.00
SCRH127-101	100	1KHZ	0.22	1.70	1.80
SCRH127-121	120	1KHZ	0.25	1.60	1.70
SCRH127-151	150	1KHZ	0.28	1.42	1.60
SCRH127-181	180	1KHZ	0.35	1.30	1.52
SCRH127-221	220	1KHZ	0.39	1.16	1.44
SCRH127-271	270	1KHZ	0.56	1.06	1.36
SCRH127-331	330	1KHZ	0.64	0.95	1.22
SCRH127-391	390	1KHZ	0.70	0.88	1.03
SCRH127-471	470	1KHZ	0.98	0.79	0.92
SCRH127-561	560	1KHZ	1.07	0.73	0.83
SCRH127-681	680	1KHZ	1.46	0.67	0.75
SCRH127-821	820	1KHZ	1.64	0.60	0.68
SCRH127-102	1000	1KHZ	1.82	0.55	0.61





(1). Inductance tolerance for 1.29uH~7.6uH: ±30%, for 10uH~1000uH: ±20%. Tested at 0.25V, 0ADC and 25℃
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 25% from its initial value.
(4). The DC current that results in a 40℃ temperature rise from 25℃ambient.

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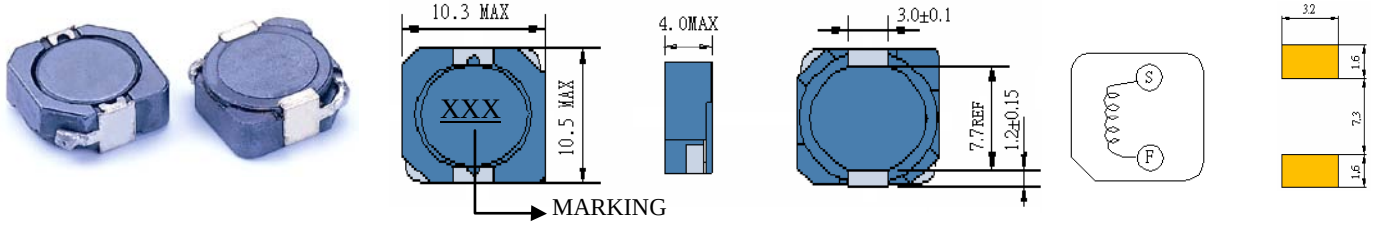
SCRH104R

SMD POWER INDUCTORS

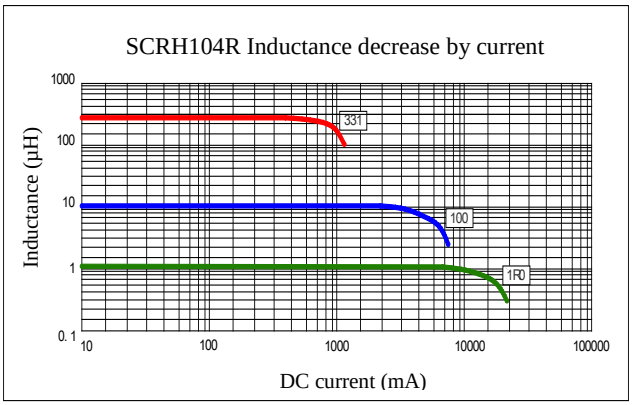


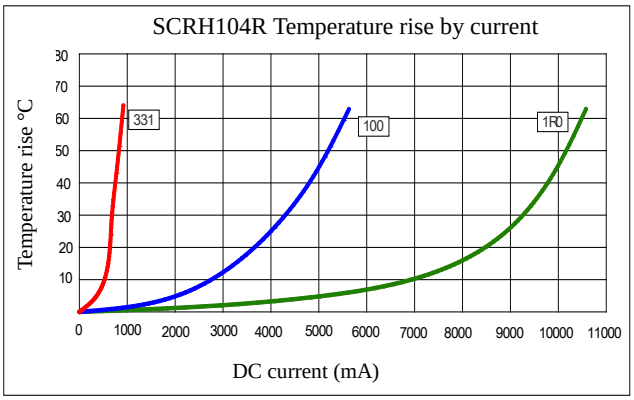
● Features

1. Magnetically shielded construction
2 Excellent Power Density
3 Engineered to Provide High Efficiency

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCRH104R-1R0	1.0	100KHZ	8.1m	10.1	9.00
SCRH104R-1R5	1.5	100KHZ	8.1m	10.0	10.0
SCRH104R-2R5	2.5	100KHZ	10m	7.50	7.50
SCRH104R-3R3	3.3	100KHZ	15m	7.00	6.70
SCRH104R-3R8	3.8	100KHZ	15m	6.00	6.00
SCRH104R-4R7	4.7	100KHZ	22m	5.80	5.40
SCRH104R-5R2	5.2	100KHZ	22m	5.70	5.10
SCRH104R-5R8	5.8	100KHZ	22m	5.50	4.84
SCRH104R-7R0	7.0	100KHZ	27m	4.80	4.59
SCRH104R-100	10	100KHZ	35m	4.40	4.36
SCRH104R-150	15	100KHZ	50m	3.60	3.10
SCRH104R-220	22	100KHZ	73m	2.90	2.70
SCRH104R-330	33	100KHZ	117m	2.30	2.10
SCRH104R-470	47	100KHZ	128m	2.10	1.90
SCRH104R-680	68	100KHZ	265m	1.50	1.42
SCRH104R-101	100	100KHZ	304m	1.35	1.25
SCRH104R-151	150	100KHZ	506m	1.15	0.93
SCRH104R-221	220	100KHZ	756 m	0.92	0.70
SCRH104R-331	330	100KHZ	1.09	0.70	0.63





(1). Inductance tolerance ±30% tested at 0.25V, 0ADC and 25℃
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 35% from its initial value.
(4). The DC current that results in a 40℃ temperature rise from 25℃ambient.

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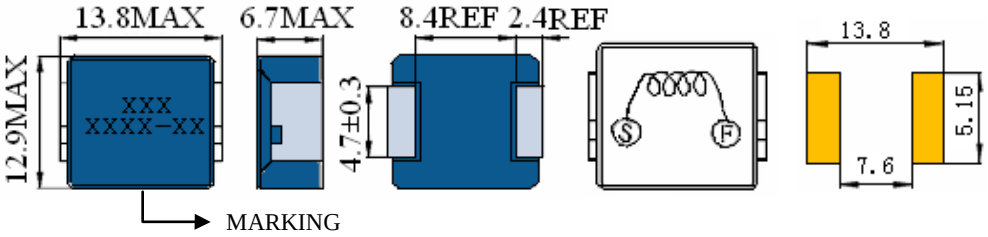
SCIHP1367

SMD POWER INDUCTORS

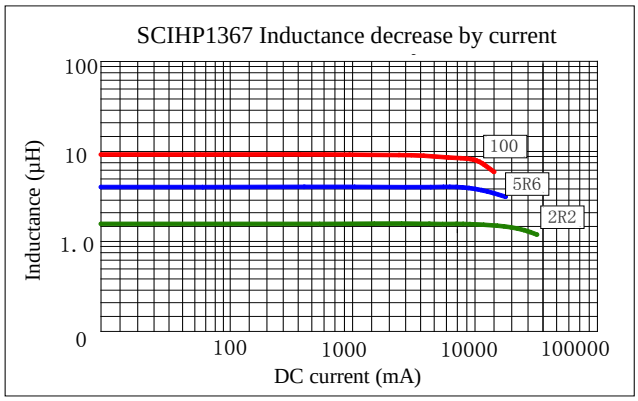


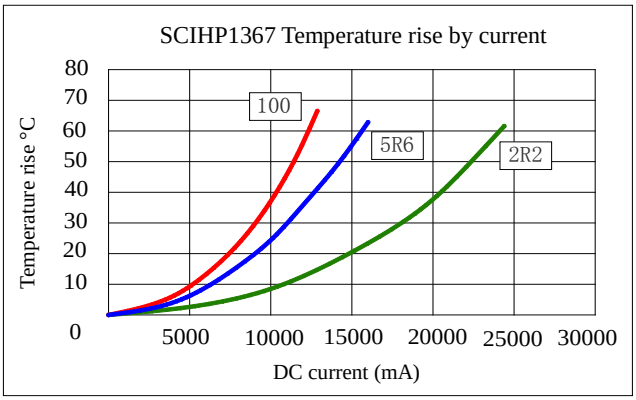
● Features

1. Lowest DCR/uH in this small package size.
2. Frequency range up to 5.0MHZ.
3. -55℃ to +125℃ operating temperature.
4. Handles high transient current spikes without saturation.
5. Composite construction providing extremely low buzz noise.

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (A) (3)	Temperature Current (A) (4)
SCIHP1367-2R2M	2.2	200KHZ	4.2m	33	20
SCIHP1367-3R3M	3.3	200KHZ	6.8m	29	15
SCIHP1367-4R7M	4.7	200KHZ	11.2m	25	13.5
SCIHP1367-5R6M	5.6	200KHZ	11.5m	24	12.0
SCIHP1367-6R8M	6.8	200KHZ	14.9m	16.5	11.5
SCIHP1367-8R2M	8.2	200KHZ	16.6m	16.0	10.5
SCIHP1367-100M	10	200KHZ	18.5m	15.5	10.0
SCIHP1367-220M	22	200KHZ	45.0m	8.0	5.0





(1). Inductance tolerance ±20% tested at 0.25V, 0ADC and 25℃

(2). DCR measured at 25℃.

(3). The DC current at which the inductance decreases by 20% from its initial value.

(4). The DC current that results in a 40℃ temperature rise from 25℃ ambient

(*). Part temperature (ambient + temp rise) should not exceed 125℃ under worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions may affect the temperature of the part. Part temperature should be verified in the end application.

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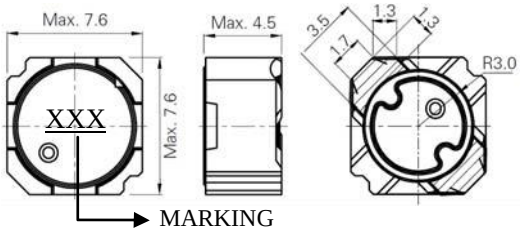
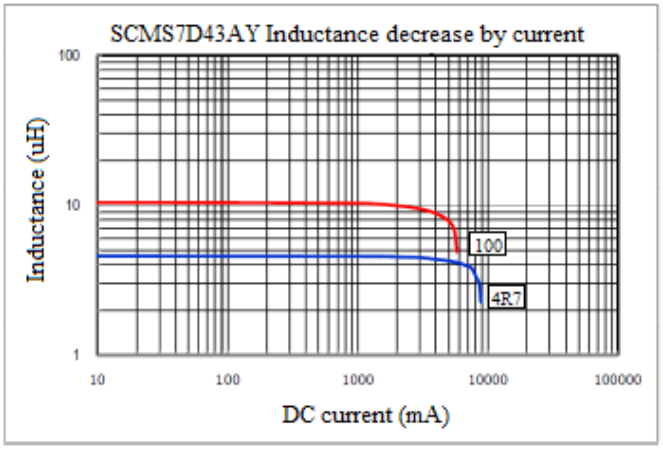


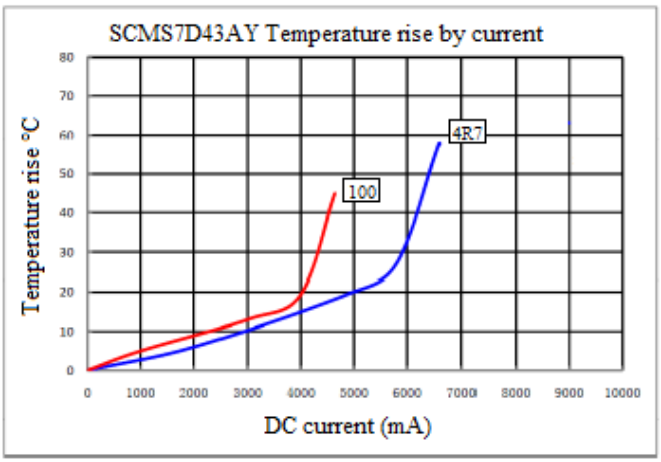
● Features

1. Magnetically shielded construction – Low EMI
2. Excellent Power Density
3. Engineered to Provide High Efficiency

ELECTRICAL CHARACTERISTICS

Part Number	Inductance (uH) (1)	Test Frequency	DC Resistance (Ω MAX) (2)	Saturation Current (3) (A)	Temperature Current (4) (A)
SCMS7D43AY-4R7	4.7	100KHZ	21.4m	7.50	5.80
SCMS7D43AY-100	10	100KHZ	48.4m	5.00	4.00





(1). Inductance tolerance ±30% tested at 1V, 0ADC and 25℃.
(2). DCR measured at 25℃.
(3). The DC current at which the inductance decreases by 35% from its initial value.
(4). The DC current that results in a 40℃ temperature rise from 25℃ ambient.

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