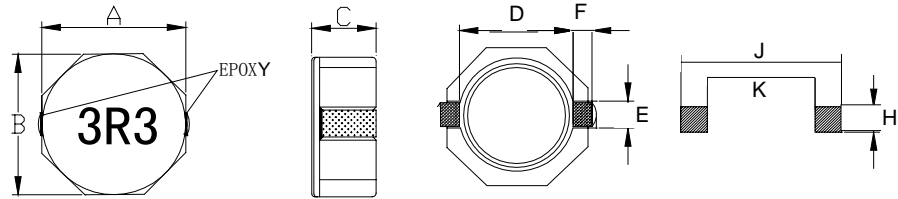


# SMD Power Inductor – SDRH



## Features

- Magnetically shielded construction
- RoHS compliance

## Applications

- LCD TV
- DC to DC Converters
- Notebook PC

## Characteristics

- Rated DC Current: The current when the inductance becomes 35% lower than its initial value.
- Operating temperature: -40~85°C

## Dimensions

Unit: mm

Codes	A	B	C max.	D ref	E ref	F ref	H	J	K
SDRH0830	8.0±0.3	8.0±0.3	3.0	6.3	2.5	1.2	2.8	10.1	6.1
SDRH0840	8.0±0.3	8.0±0.3	4.0	6.3	2.5	1.2	2.8	10.1	6.1
SDRH0845	8.0±0.3	8.0±0.3	4.5	6.3	2.5	1.2	2.8	10.1	6.1

## Inductance and rated current ranges

- SDRH0830 1.0~100μH 6.5~0.75A
- SDRH0840 1.8~100μH 7.0~1.05A
- SDRH0845 1.0~100μH 9.0~1.30A
- Electrical specifications at 25°C

## Product Identification

SDRH	0830	N	T	101
Product Type	Dimensions (AxBxC)	Inductor Tolerance	Packaging Style	Inductance
	0830: 8.0x8.0x3.0 0840: 8.0x8.0x4.0 0845: 8.0x8.0x4.5	N: ±30%	T: Tape and Reel	1R1: 1.1μH 470: 47μH 101: 100μH

## Electrical Characteristics

Codes	L (μH)	Tolerance	Test Condition		DCR (mΩ) max.			IDC (A) max.		
			0830	0840 0845	0830	0840	0845	0830	0840	0845
1R0	1.0	N	100KHz, 0.25V	100KHz, 0.1V	11.0	-	9.50	6.50	-	9.0
1R2	1.2	N	100KHz, 0.25V	100KHz, 0.1V	-	-	12.2	-	-	8.0
1R8	1.8	N	100KHz, 0.25V	100KHz, 0.1V	-	15.6	-	-	7.0	-
2R0	2.0	N	100KHz, 0.25V	100KHz, 0.1V	-	-	14.0	-	-	7.0
2R2	2.2	N	100KHz, 0.25V	100KHz, 0.1V	26.0	-	-	4.50	-	-
2R5	2.5	N	100KHz, 0.25V	100KHz, 0.1V	15.6	17.5	-	4.50	6.5	-
3R3	3.3	N	100KHz, 0.25V	100KHz, 0.1V	28.0	-	-	4.00	-	-
3R5	3.5	N	100KHz, 0.25V	100KHz, 0.1V	-	24.0	-	-	5.0	-
3R9	3.9	N	100KHz, 0.25V	100KHz, 0.1V	-	-	19.0	-	-	5.9
4R7	4.7	N	100KHz, 0.25V	100KHz, 0.1V	39.0	29.0	22.0	3.40	4.6	5.6

## ■ Electrical Characteristics

Codes	L ( $\mu$ H)	Tolerance	Test Condition		DCR (m $\Omega$ ) max.			IDC (A) max.		
			0830	0840 0845	0830	0840	0845	0830	0840	0845
6R0	6.0	N	100KHz, 0.25V	100KHz, 0.1V	-	32.0	-	-	4.2	-
6R8	6.8	N	100KHz, 0.25V	100KHz, 0.1V	45.0	-	25.0	3.00	-	4.4
7R3	7.3	N	100KHz, 0.25V	100KHz, 0.1V	58.0	-	-	2.80	-	-
100	10	N	100KHz, 0.25V	100KHz, 0.1V	63.0	48.0	36.0	2.50	3.00	4.0
150	15	N	100KHz, 0.25V	100KHz, 0.1V	69.0	67.0	53.0	1.90	2.75	2.9
220	22	N	100KHz, 0.25V	100KHz, 0.1V	99.0	105	75.0	1.60	2.30	2.6
330	33	N	100KHz, 0.25V	100KHz, 0.1V	156	157	125	1.30	1.75	2.2
470	47	N	100KHz, 0.25V	100KHz, 0.1V	195	189	150	1.15	1.52	1.8
680	68	N	100KHz, 0.25V	100KHz, 0.1V	286	290	240	0.92	1.30	1.5
101	100	N	100KHz, 0.25V	100KHz, 0.1V	430	410	362	0.75	1.05	1.3
151	150	N	100KHz, 0.25V	100KHz, 0.1V	681	-	-	0.70	-	-
181	180	N	100KHz, 0.25V	100KHz, 0.1V	757	-	-	0.60	-	-
201	200	N	100KHz, 0.25V	100KHz, 0.1V	970	-	-	0.50	-	-