

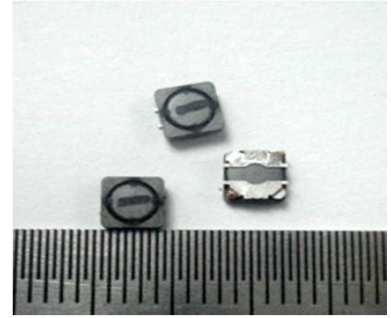


# SDRH3015 Series

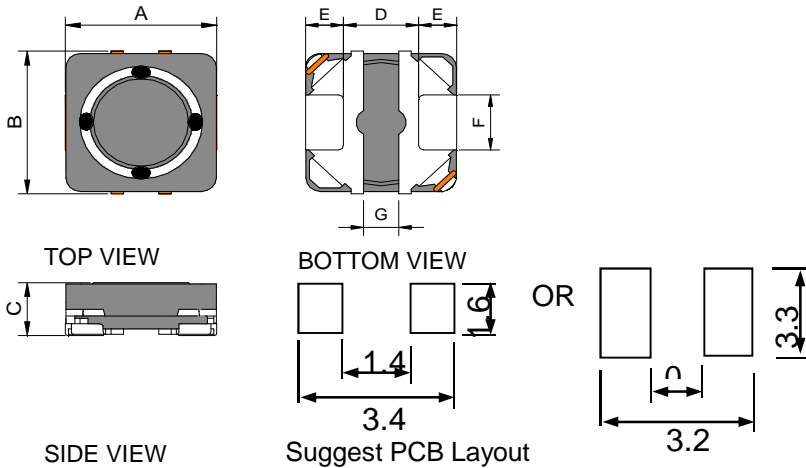


## 1. Features:

- Miniature size: Mount area 3.0\*3.0mm; Low profile 1.5mm max. height.
- Generic use for portable DC to DC converter line.
- Available for automatic mounting in tape and reel package.
- The products contain no lead and also support lead-free soldering.
- It is a product conforming to ROHS directive.
- High Reliability for Resistance to Soldering heat.
- Power source inductor for mobile phones, HDDs, LCD Panel, and DSCs.
- Operating Temperature Range -55°C to + 130°C.



## 2. Mechanical Dimension (Unit:mm):



Type	SDRH3015
A	3.0 ± 0.2
B	3.0 ± 0.3
C	1.5 (Max.)
D	1.5 (Typ.)
E	0.7 (Typ.)
F	1.2 (Typ.)
G	0.7 (Typ.)

## 3. Electrical Characteristic of SDRH3015 Series:

Part Number	OCL (uH) ±20% or ±30%	DCR (Ω) ±20%	Isat (A) @25°C	Irms (A) @25°C	Marking
SDRH3015-1R0NHF	1.0±30%	0.052	2.40	1.84	A
SDRH3015-1R5NHF	1.5±30%	0.070	2.00	1.66	C
SDRH3015-1R8NHF	1.8±30%	0.080	1.70	1.56	D
SDRH3015-2R2NHF	2.2±30%	0.09	1.50	1.40	E
SDRH3015-2R7NHF	2.7±30%	0.10	1.40	1.30	F
SDRH3015-3R3NHF	3.3±30%	0.11	1.30	1.25	G
SDRH3015-3R9NHF	3.9±30%	0.12	1.20	1.20	H
SDRH3015-4R7MHF	4.7±20%	0.16	1.00	1.10	I
SDRH3015-5R6MHF	5.6±20%	0.17	0.90	1.05	J
SDRH3015-6R8MHF	6.8±20%	0.23	0.85	1.00	K
SDRH3015-8R2MHF	8.2±20%	0.28	0.80	0.95	L
SDRH3015-100MHF	10±20%	0.36	0.75	0.85	M
SDRH3015-120MHF	12±20%	0.42	0.62	0.77	N
SDRH3015-150MHF	15±20%	0.50	0.58	0.67	O
SDRH3015-180MHF	18±20%	0.59	0.54	0.56	P
SDRH3015-220MHF	22±20%	0.72	0.48	0.50	Q
SDRH3015-270MHF	27±20%	0.82	0.40	0.45	R

### Note:

- 1.OCL (Open Circuit Inductance) and L@ I<sub>rms</sub> and L @I<sub>sat</sub> are measured at: 100KHz, 0.1V @ 25°C.
- 2.Isat: DC current that causes inductance to drop by approximately 30% from OCL.
- 3.Irms: DC current that causes an approximate temperature rise (ΔT) of 40°C typ.
- 4.Rated DC Current: The less value which is Isat or I<sub>rms</sub>.