

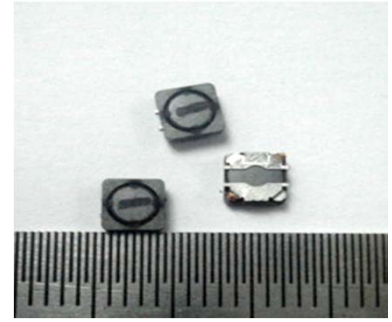


# SDRH3012 Series

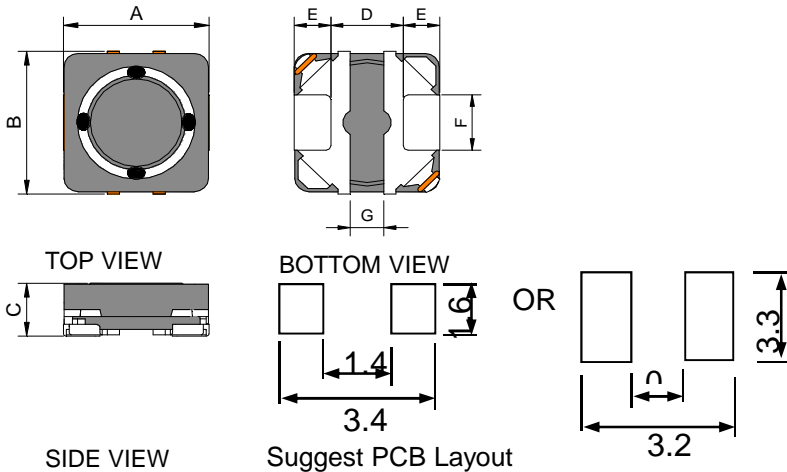


## 1. Features:

- Miniature size: Mount area 3.0\*3.0mm;Low profile1.2mm 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	SDRH3012
A	3.0 ± 0.2
B	3.0 ± 0.3
C	1.2 (Max.)
D	1.5 (Typ.)
E	0.7 (Typ.)
F	1.2 (Typ.)
G	0.7 (Typ.)

## 3. Electrical Characteristic of SDRH3012 Series:

Part Number	OCL (uH) ±20% or ±30%	DCR (Ω) ±20%	Isat (A) @25°C	Irms (A) @25°C	Marking
SDRH3012-1R0NHF	1.0±30%	0.055	1.50	1.80	A
SDRH3012-1R2NHF	1.2±30%	0.063	1.40	1.65	B
SDRH3012-1R5NHF	1.5±30%	0.075	1.30	1.50	C
SDRH3012-2R2NHF	2.2±30%	0.11	1.00	1.30	D
SDRH3012-3R3NHF	3.3±30%	0.15	0.87	1.10	E
SDRH3012-3R9NHF	3.9±30%	0.18	0.82	1.00	H
SDRH3012-4R7MHF	4.7±20%	0.21	0.75	0.90	I
SDRH3012-5R6MHF	5.6±20%	0.27	0.65	0.80	J
SDRH3012-6R8MHF	6.8±20%	0.33	0.60	0.70	K
SDRH3012-8R2MHF	8.2±20%	0.38	0.55	0.65	L
SDRH3012-100MHF	10±20%	0.41	0.50	0.60	M
SDRH3012-120MHF	12±20%	0.55	0.45	0.55	N
SDRH3012-150MHF	15±20%	0.68	0.40	0.45	O
SDRH3012-220MHF	22±20%	0.95	0.35	0.35	Q

### Note:

- 1.OCL (Open Circuit Inductance) and L@ Irms and L @Isat 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 Irms.