

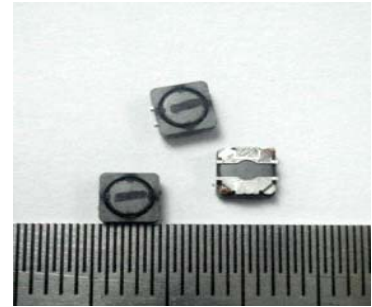


SDRH4012 Series

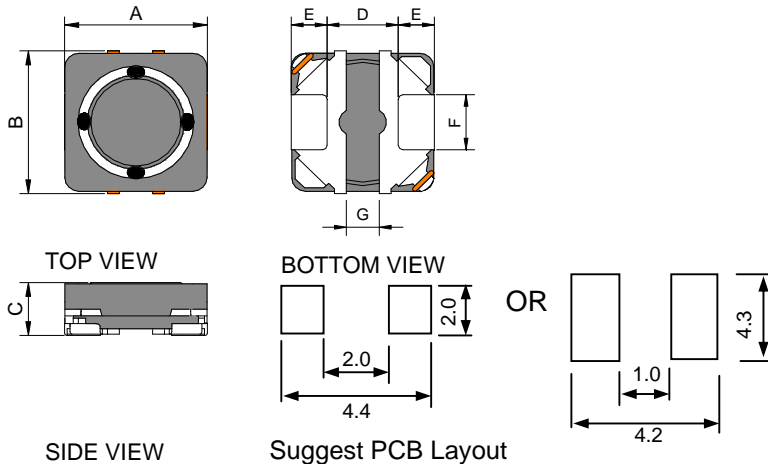


1. Features:

- Miniature size: Mount area 4.0*4.0mm;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	SDRH4012
A	4.0 ± 0.2
B	4.0 ± 0.3
C	1.2 (Max.)
D	2.1 (Typ.)
E	0.9 (Typ.)
F	1.6 (Typ.)
G	1.1 (Typ.)

3. Electrical Characteristic of SDRH4012 Series:

Part Number	OCL (uH) ±20% or ±30%	DCR (Ω) ±20%	Isat (A) @25°C	Irms (A) @25°C	Marking
SDRH4012-1R2NU	1.2±30%	0.057	2.00	2.00	3B
SDRH4012-1R5NU	1.5±30%	0.067	1.70	1.80	3C
SDRH4012-2R2NU	2.2±30%	0.084	1.50	1.55	3E
SDRH4012-3R3NU	3.3±30%	0.10	1.30	1.25	3G
SDRH4012-4R7MU	4.7±20%	0.14	1.10	1.15	3I
SDRH4012-6R8MU	6.8±20%	0.17	1.00	1.05	3K
SDRH4012-8R2MU	8.2±20%	0.21	0.90	1.00	3L
SDRH4012-100MU	10±20%	0.26	0.75	0.90	3M
SDRH4012-120MU	12±20%	0.30	0.66	0.85	3N
SDRH4012-150MU	15±20%	0.39	0.60	0.75	3O
SDRH4012-180MU	18±20%	0.45	0.55	0.60	3P
SDRH4012-220MU	22±20%	0.65	0.50	0.50	3Q
SDRH4012-270MU	27±20%	0.75	0.45	0.40	3R
SDRH4012-330MU	33±20%	0.85	0.39	0.45	3S

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.