

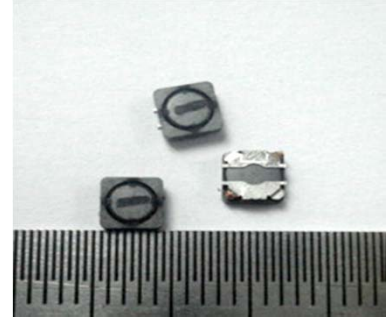


SDRH3020 Series

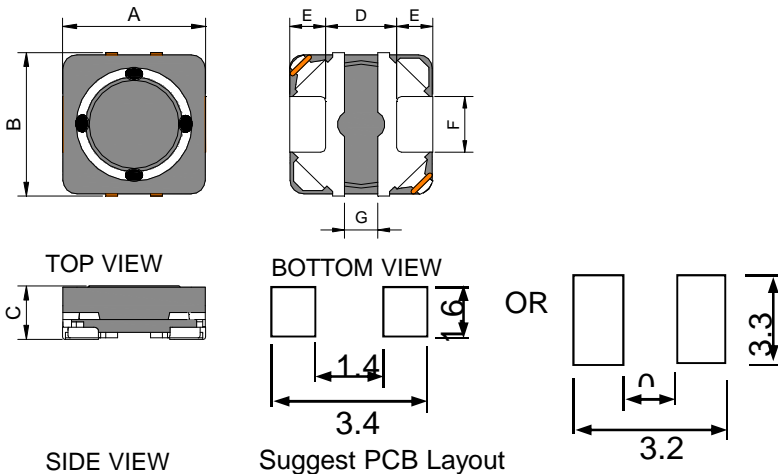


1. Features:

- Miniature size: Mount area 3.0*3.0mm; Low profile 2.0mm 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	SDRH3020
A	3.0 ± 0.2
B	3.0 ± 0.3
C	2.0 (Max.)
D	1.5 (Typ.)
E	0.7 (Typ.)
F	1.2 (Typ.)
G	0.7 (Typ.)

3. Electrical Characteristic of SDRH3020 Series:

Part Number	OCL (uH) ±20% or ±30%	DCR (Ω) ±20%	Isat (A) @25°C	Irms (A) @25°C	Marking
SDRH3020-1R5NHF	1.5±30%	0.064	1.80	1.70	C
SDRH3020-2R2NHF	2.2±30%	0.087	1.40	1.45	E
SDRH3020-3R3NHF	3.3±30%	0.100	1.20	1.30	G
SDRH3020-4R7MHF	4.7±20%	0.15	1.00	1.15	I
SDRH3020-6R8MHF	6.8±20%	0.18	0.87	1.05	K
SDRH3020-100MHF	10±20%	0.24	0.60	0.85	M
SDRH3020-470MHF	47±20%	1.41	0.32	0.25	U

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.