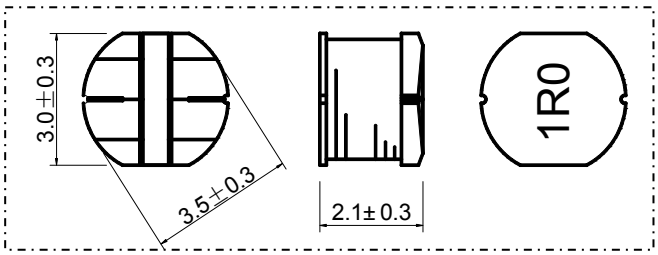
# Power Inductor for Surface Mounting

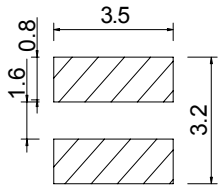
## SD32

**Inductance Range：1.0μH~330μH**
**Temperature Range：－40℃～＋105℃**

## DIMENSIONS(mm)


LAND PATTERNS(mm)




CONSTRUCTION

Unshield

## FEATURES：

RoHS Compliant(SGS Certified Result)

| Pb | Cd | Cr＋6 | PBBs | PBDEs |
|---|---|---|---|---|
| ＜1000ppm | ND | ND | ND | ND |

★Quantity / Reel: 2500pcs
★Small products, Round 3.5mm, Height 2.1mm Typ.
★The use of carrier tape package for SMT reflow soldering process
★Widely use in DC-DC converter/LCD TV/Notebook/
PDA/MP3 & MP4 player/Digital camera/DVD etc.
★Design to customer requirement

## Electrical Characteristics：

| Part Number | Test Condition | Inductance (μH) | Tolerance （%） | D.C.R(Ω) Max. | Rated Current(A) |
|---|---|---|---|---|---|
| SD32-1R0M | 100KHz/0.3V | 1.0 | ±20 | 35m | 3.34 |
| SD32-1R5M | 100KHz/0.3V | 1.5 | ±20 | 45m | 3.01 |
| SD32-1R8M | 100KHz/0.3V | 1.8 | ±20 | 54m | 2.68 |
| SD32-2R2M | 100KHz/0.3V | 2.2 | ±20 | 59m | 2.35 |
| SD32-2R7M | 100KHz/0.3V | 2.7 | ±20 | 77m | 2.01 |
| SD32-3R3M | 100KHz/0.3V | 3.3 | ±20 | 98m | 1.83 |
| SD32-3R9M | 100KHz/0.3V | 3.9 | ±20 | 117m | 1.64 |
| SD32-4R7M | 100KHz/0.3V | 4.7 | ±20 | 137m | 1.50 |
| SD32-5R6M | 100KHz/0.3V | 5.6 | ±20 | 157m | 1.36 |
| SD32-6R8M | 100KHz/0.3V | 6.8 | ±20 | 196m | 1.22 |
| SD32-8R2M | 100KHz/0.3V | 8.2 | ±20 | 230m | 1.09 |
| SD32-100K,M | 1KHz/0.3V | 10 | ±10，±20 | 286m | 0.95 |
| SD32-120K,M | 1KHz/0.3V | 12 | ±10，±20 | 322m | 0.88 |
| SD32-150K,M | 1KHz/0.3V | 15 | ±10，±20 | 398m | 0.82 |
| SD32-180K,M | 1KHz/0.3V | 18 | ±10，±20 | 520m | 0.76 |
| SD32-220K,M | 1KHz/0.3V | 22 | ±10，±20 | 660m | 0.63 |
| SD32-270K,M | 1KHz/0.3V | 27 | ±10，±20 | 760m | 0.62 |
| SD32-330K,M | 1KHz/0.3V | 33 | ±10，±20 | 870m | 0.56 |
| SD32-390K,M | 1KHz/0.3V | 39 | ±10，±20 | 1.10 | 0.51 |
| SD32-470K,M | 1KHz/0.3V | 47 | ±10，±20 | 1.25 | 0.47 |
| SD32-560K,M | 1KHz/0.3V | 56 | ±10，±20 | 1.59 | 0.42 |
| SD32-680K,M | 1KHz/0.3V | 68 | ±10，±20 | 1.82 | 0.38 |
| SD32-820K,M | 1KHz/0.3V | 82 | ±10，±20 | 2.44 | 0.34 |
| SD32-101K,M | 1KHz/0.3V | 100 | ±10，±20 | 2.84 | 0.31 |
| SD32-121K,M | 1KHz/0.3V | 120 | ±10，±20 | 3.19 | 0.28 |
| SD32-151K,M | 1KHz/0.3V | 150 | ±10，±20 | 4.20 | 0.16 |
| SD32-181K,M | 1KHz/0.3V | 180 | ±10，±20 | 5.11 | 0.15 |
| SD32-221K,M | 1KHz/0.3V | 220 | ±10，±20 | 7.31 | 0.14 |
| SD32-271K,M | 1KHz/0.3V | 270 | ±10，±20 | 8.24 | 0.12 |
| SD32-331K,M | 1KHz/0.3V | 330 | ±10，±20 | 10.19 | 0.10 |

1、Inductance is measured with a LCR meter:HP4284A & 3532-50 or equivalent.
2、D.C.R is measured with a Digital Multimeter TH2512B or equivalent.
3、Rated Current：The rated current is the current at which the inductance decreases by 25% from the initial value or the temperature rise is △T＝40℃ ,whichever is smaller(Ta＝20℃).

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