

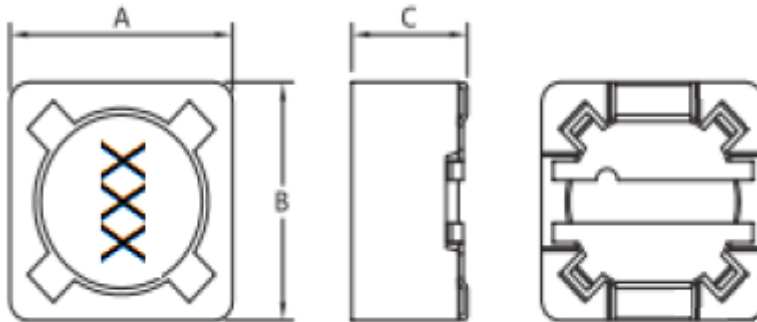
# SDS74-Series-Z3 Specification

## SMD Shielded Power Inductor

### APPLICATION

Tablet terminals, HDDs, SSDs, DVCs, DSCs, mobile display panels, portable game devices, Telecommunications, Consumer electronics, Compact power supply modules, other

### 1. Shapes and Dimensions



Unit: mm

Type	A	B	C
SDS74	7.3±0.4	7.3±0.4	4.5 Max.

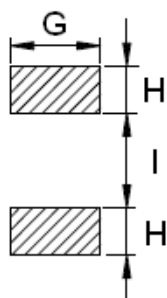
### 2. Ordering / Part Number Information

**SDS 74 - 1R0 N - Z3**  
**(1) (2) (3) (4) (5)**

- (1) Product Group
- (2) Dimension Code
- (3) Inductance Code
- (4) Inductance Tolerance (M=±20%, N=±30%)
- (5) Control Code

### 3. Recommended Soldering Condition

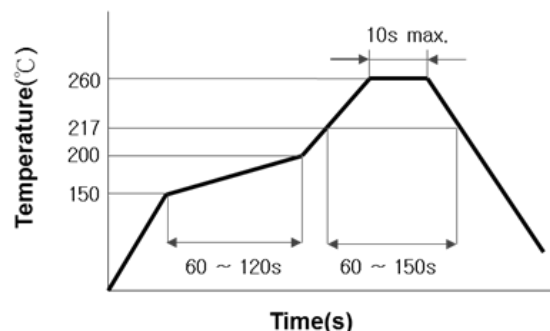
#### 3-1. Recommended Land Pattern



Unit : mm

Symbol	Dimension
<b>G</b>	2.20
<b>H</b>	1.60
<b>I</b>	4.80

#### 3-2. Recommended Soldering Profile



The Recommended Land pattern is for reference only.  
Please consult your manufacturing partners to ensure your company's PCB design guidelines are met

## 4. Electrical Characteristics

### 4-1. Electrical Specification

Part Number	Inductance (L) @100KHz	DC Resistance (R <sub>DC</sub> ) Max.	Rated Current (I <sub>DC</sub> ) Max.
SDS74-1R0N-Z3	1.00uH ±30%	0.022Ω	4.00A
SDS74-2R2N-Z3	2.20uH ±30%	0.030Ω	3.00A
SDS74-3R3N-Z3	3.30uH ±30%	0.035Ω	2.80A
SDS74-4R7N-Z3	4.70uH ±30%	0.040Ω	2.50A
SDS74-6R8N-Z3	6.80uH ±30%	0.050Ω	2.10A
SDS74-100M-Z3	10.0uH ±20%	0.055Ω	1.84A
SDS74-150M-Z3	15.0uH ±20%	0.081Ω	1.47A
SDS74-180M-Z3	18.0uH ±20%	0.091Ω	1.31A
SDS74-220M-Z3	22.0uH ±20%	0.110Ω	1.23A
SDS74-270M-Z3	27.0uH ±20%	0.150Ω	1.10A
SDS74-330M-Z3	33.0uH ±20%	0.170Ω	0.96A
SDS74-390M-Z3	39.0uH ±20%	0.230Ω	0.91A
SDS74-470M-Z3	47.0uH ±20%	0.260Ω	0.88A
SDS74-560M-Z3	56.0uH ±20%	0.350Ω	0.75A
SDS74-680M-Z3	68.0uH ±20%	0.380Ω	0.69A
SDS74-820M-Z3	82.0uH ±20%	0.430Ω	0.61A
SDS74-101M-Z3	100.0uH ±20%	0.610Ω	0.60A
SDS74-151M-Z3	150.0uH ±20%	0.880Ω	0.46A
SDS74-181M-Z3	180.0uH ±20%	0.980Ω	0.42A
SDS74-221M-Z3	220.0uH ±20%	1.170Ω	0.36A
SDS74-271M-Z3	270.0uH ±20%	1.640Ω	0.34A
SDS74-331M-Z3	330.0uH ±20%	1.860Ω	0.32A
SDS74-391M-Z3	390.0uH ±20%	2.850Ω	0.29A
SDS74-471M-Z3	470.0uH ±20%	3.010Ω	0.26A
SDS74-561M-Z3	560.0uH ±20%	3.620Ω	0.23A
SDS74-681M-Z3	680.0uH ±20%	4.630Ω	0.22A
SDS74-821M-Z3	820.0uH ±20%	5.200Ω	0.20A
SDS74-102M-Z3	1000.0uH ±20%	6.000Ω	0.18A

Note1. The DC Rated Current is based on inductance change  $\Delta L/L0:30\%$ .Typ.

### 4-2. Operating Temperature Range

-40°C to +125°C (Including self-temperature rise)

### 4-3. Storage Temperature Range

Store this product under the condition of 5°C to 40°C, 20% to 70%RH and use within 6 months

## 5. Package Quantity

Standard Quantity for Packaging: 1,000 pcs/Reel

### Note

1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)

Reference