

# SMD POWER INDUCTOR

# WSPRH124 Series

## FEATURES/APPLICATIONS

- Carrier tape packing use for SMT.
- Small footprint
- Magnetically shielded construction.
- Suitable for reflow SMT Craft soldering.
- Lead free products, RoHS compliant.
- Widely use in Digital products & Scanner/DC-DC converter/Power supply for VTP/LCD monitor / portable terminal equipment/Telecommunications / Notebook and PC Peripheral equipments etc.

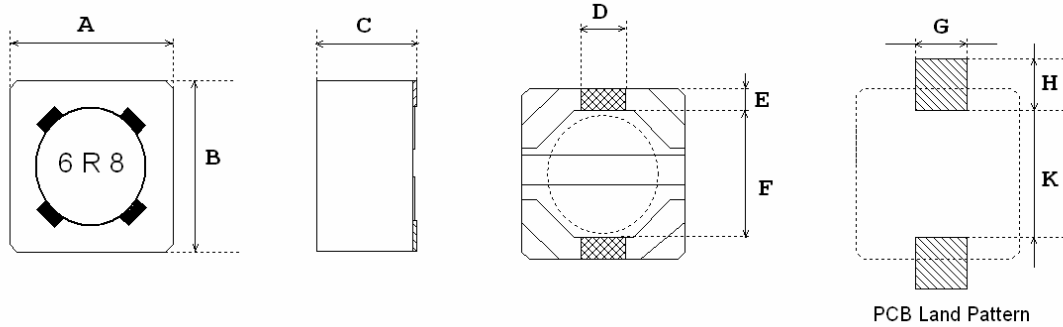
## ELECTRICAL CHARACTERISTICS

| Part Number   | Test Condition | Inductance (uH) | Tolerance | DCR(mΩ) (max) | Rated Current (A) (max) |
|---------------|----------------|-----------------|-----------|---------------|-------------------------|
| WSPRH124-4R7M | 100Khz/0.1V    | 4.7             | +/- 10%   | 30            | 5.70                    |
| WSPRH124-6R8M | 100Khz/0.1V    | 6.8             | +/- 10%   | 50            | 4.90                    |
| WSPRH124-100M | 100Khz/0.1V    | 10              | +/- 10%   | 65            | 4.50                    |
| WSPRH124-120M | 100Khz/0.1V    | 12              | +/- 10%   | 70            | 4.00                    |
| WSPRH124-150M | 100Khz/0.1V    | 15              | +/- 10%   | 84            | 3.50                    |
| WSPRH124-180M | 100Khz/0.1V    | 18              | +/- 10%   | 95            | 3.00                    |
| WSPRH124-220M | 100Khz/0.1V    | 22              | +/- 10%   | 128           | 2.90                    |
| WSPRH124-270M | 100Khz/0.1V    | 27              | +/- 10%   | 142           | 2.80                    |
| WSPRH124-330M | 100Khz/0.1V    | 33              | +/- 10%   | 165           | 2.70                    |
| WSPRH124-390M | 100Khz/0.1V    | 39              | +/- 10%   | 210           | 2.20                    |
| WSPRH124-470M | 100Khz/0.1V    | 47              | +/- 10%   | 238           | 2.00                    |
| WSPRH124-560M | 100Khz/0.1V    | 56              | +/- 10%   | 227           | 1.80                    |
| WSPRH124-680M | 100Khz/0.1V    | 68              | +/- 10%   | 304           | 1.60                    |
| WSPRH124-820M | 100Khz/0.1V    | 82              | +/- 10%   | 390           | 1.30                    |
| WSPRH124-101M | 100Khz/0.1V    | 100             | +/- 10%   | 535           | 1.20                    |
| WSPRH124-121M | 100Khz/0.1V    | 120             | +/- 10%   | 470           | 1.10                    |
| WSPRH124-151M | 100Khz/0.1V    | 150             | +/- 10%   | 580           | 0.95                    |
| WSPRH124-181M | 100Khz/0.1V    | 180             | +/- 10%   | 690           | 0.85                    |
| WSPRH124-221M | 100Khz/0.1V    | 220             | +/- 10%   | 890           | 0.80                    |
| WSPRH124-271M | 100Khz/0.1V    | 270             | +/- 10%   | 1290          | 0.60                    |
| WSPRH124-331M | 100Khz/0.1V    | 330             | +/- 10%   | 1700          | 0.50                    |

Note:

1. Inductance Measurement: HP4280A/CH1062A or LCR equivalent meter.
2. Resistance Measurement: TH2512B or DCR test equipment equivalent.
3. Rated Current Test Condition: Inductance drop by 25% or temperature rise by 40 °C, whichever reaches first.
4. Operating temperature: -40 °C - +125°C
5. Storage temperature: -40 °C - +125°C
6. Humidity: RH65% - 85%

**SHAPE and DIMENSIONS (Unit: mm)**



| Dimensions | MM         |
|------------|------------|
| A          | 12.0 ± 0.3 |
| B          | 12.0 ± 0.3 |
| C          | 4.5 (max)  |
| D          | 5.0        |
| E          | 2.5        |
| F          | 7.0        |
| G          | 5.5        |
| H          | 3.0        |
| K          | 7.0        |