

### Power Inductors / Wire Wound type

Series: **R**

Type: **ELL5PR**



#### ■ Features

- Magnetic shielded structure
- Low DC resistance and large current capability
- Adopted a rectangular core
- RoHS compliant

#### ■ Recommended Applications

- DC-DC converter circuitry for computer peripherals and cellular phones.
- Chopper circuit decoupling chokes for DC-DC converter circuitry

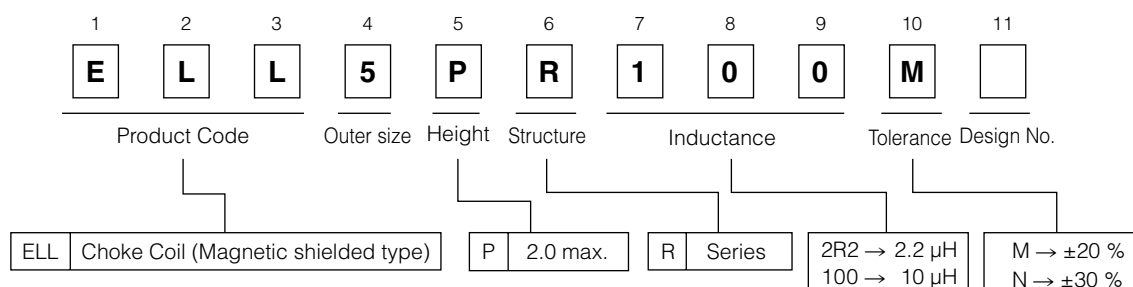
#### ■ Standard Packing Quantity

- 2000 pcs./Reel

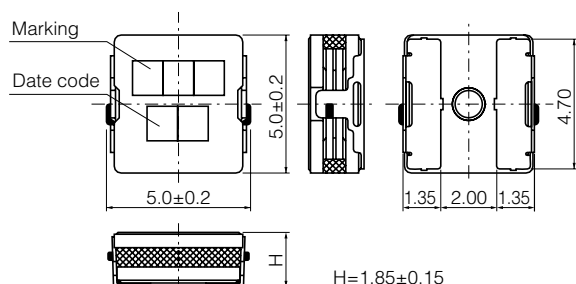
#### ■ Soldering Conditions and Safety Precautions

Please see Data Files.

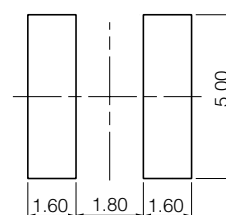
#### ■ Explanation of Part Numbers



#### ■ Dimensions in mm (not to scale)



#### ■ Recommended Land Pattern in mm (not to scale)



### Standard Parts

| Part Number | Inductance<br>(100 kHz) |      | R <sub>DC</sub><br>(at 20 °C) |      | Saturation<br>Rated Current <sup>*1</sup><br>(mA max.) | Temperature<br>Rise Current <sup>*2</sup><br>(mA max.) | Marking |
|-------------|-------------------------|------|-------------------------------|------|--------------------------------------------------------|--------------------------------------------------------|---------|
|             | (μH)                    | Tol. | (mΩ)                          | Tol. |                                                        |                                                        |         |
| ELL5PRR47N  | 0.47                    | ±30% | 12                            | ±20% | 5500                                                   | 3900                                                   | R47     |
| ELL5PR1R0N  | 1.0                     |      | 21                            |      | 4500                                                   | 3000                                                   | 1R0     |
| ELL5PR1R2N  | 1.2                     |      | 21                            |      | 4200                                                   | 3000                                                   | 1R2     |
| ELL5PR1R5N  | 1.5                     |      | 25                            |      | 4000                                                   | 2850                                                   | 1R5     |
| ELL5PR2R2N  | 2.2                     |      | 32                            |      | 3200                                                   | 2400                                                   | 2R2     |
| ELL5PR3R3N  | 3.3                     |      | 37                            |      | 2600                                                   | 2300                                                   | 3R3     |
| ELL5PR4R7N  | 4.7                     |      | 56                            |      | 2200                                                   | 1800                                                   | 4R7     |
| ELL5PR6R8N  | 6.8                     |      | 85                            |      | 1700                                                   | 1400                                                   | 6R8     |
| ELL5PR100M  | 10.0                    | ±20% | 150                           | ±20% | 1400                                                   | 1060                                                   | 100     |
| ELL5PR150M  | 15.0                    |      | 190                           |      | 1200                                                   | 1000                                                   | 150     |
| ELL5PR220M  | 22.0                    |      | 290                           |      | 950                                                    | 800                                                    | 220     |

\*1 Saturation Rated Current : This DC current which causes a 30 % inductance reduction from its nominal value.

\*2 Temperature Rise Current : This indicates the value of current when temperature rise  $\Delta t/t = 40$  °C (at 20 °C).

### Embossed Carrier Tape Dimensions in mm (not to scale)

