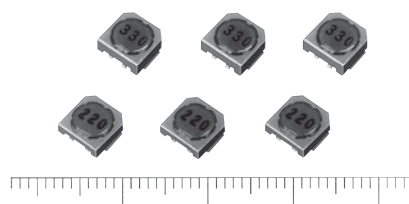


## Power Inductors / Wire Wound type

Series : **H**  
Type : **ELL6RH**  
**ELL6SH**  
**ELL6UH**



### Features

- Thin (height 2.5 mm, 3.0 mm)
- Higher reliability in mounting by separating the user terminal and internal connection.
- Large current capability
- RoHS compliant

### Recommended Applications

- Audiovisual equipment, Small portable device, DC/DC converter circuit for amusement machine

### Cautionary Notes Regarding Usage in DC/DC converters

- Maximum Dissipation of 1 W.
- Maximum case temperature of 105 °C (Ambient & self-heating temperature)

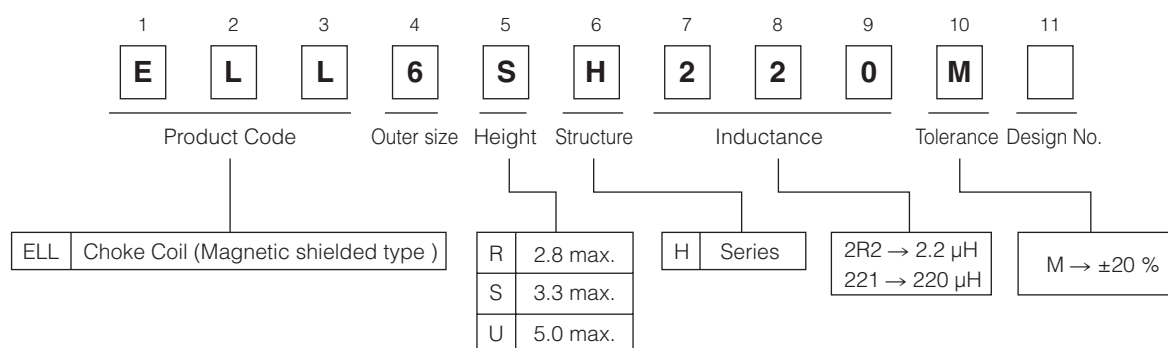
### Standard Packing Quantity

- 1,000 pcs./reel

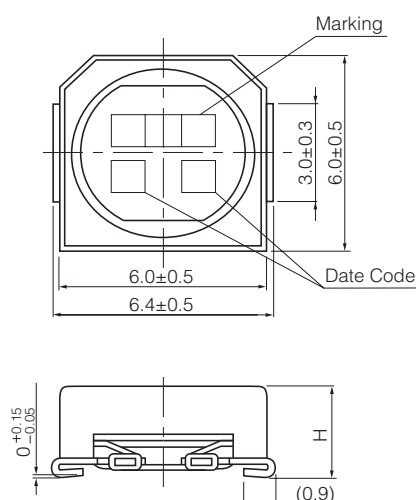
### ■ As for Soldering Conditions and Safety Precautions,

Please see Data Files

### Explanation of Part Numbers

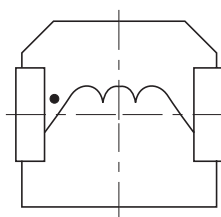


## Dimensions in mm (not to scale)

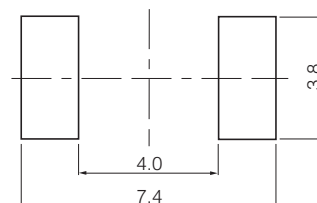


| Type   | H             |
|--------|---------------|
| ELL6RH | 2.5 mm±0.3 mm |
| ELL6SH | 3.0 mm±0.3 mm |
| ELL6UH | 5.0 mm max.   |

## Connections (Top view)



## Recommended land patterns in mm (not to scale)



## Standard Parts

| Part No.   | Inductance (μH)<br>at 100 kHz<br>Tol. ±20 % | R <sub>DC</sub> (mΩ)<br>at 20 °C<br>Tol. ±20 % |      | Rated<br>Current*<br>(mA) max. |      | Marking |
|------------|---------------------------------------------|------------------------------------------------|------|--------------------------------|------|---------|
|            |                                             | 6RH                                            | 6SH  | 6RH                            | 6SH  |         |
| ELL6□H1R0M | 1.0                                         | 19                                             | 19   | 3000                           | 3400 | 1R0     |
| ELL6□H1R5M | 1.5                                         | 24                                             | 24   | 2400                           | 3200 | 1R5     |
| ELL6□H2R0M | 2.0                                         | —                                              | 26   | —                              | 2600 | 2R0     |
| ELL6□H2R2M | 2.2                                         | 30                                             | —    | 2300                           | —    | 2R2     |
| ELL6□H2R7M | 2.7                                         | 39                                             | 31   | 1800                           | 2400 | 2R7     |
| ELL6□H3R3M | 3.3                                         | 44                                             | 34   | 1600                           | 2200 | 3R3     |
| ELL6□H4R7M | 4.7                                         | 49                                             | 42   | 1580                           | 2000 | 4R7     |
| ELL6□H5R1M | 5.1                                         | 56                                             | —    | 1550                           | —    | 5R1     |
| ELL6□H5R6M | 5.6                                         | —                                              | 49   | —                              | 1800 | 5R6     |
| ELL6□H6R2M | 6.2                                         | 62                                             | —    | 1400                           | —    | 6R2     |
| ELL6□H6R8M | 6.8                                         | —                                              | 52   | —                              | 1500 | 6R8     |
| ELL6□H7R5M | 7.5                                         | 80                                             | —    | 1250                           | —    | 7R5     |
| ELL6□H8R2M | 8.2                                         | 87                                             | 61   | 1200                           | 1400 | 8R2     |
| ELL6□H100M | 10.0                                        | 95                                             | 65   | 1100                           | 1300 | 100     |
| ELL6□H120M | 12.0                                        | 130                                            | 71   | 1000                           | 1200 | 120     |
| ELL6□H150M | 15.0                                        | 150                                            | 96   | 850                            | 1100 | 150     |
| ELL6□H180M | 18.0                                        | 170                                            | 130  | 800                            | 1000 | 180     |
| ELL6□H220M | 22.0                                        | 220                                            | 140  | 700                            | 900  | 220     |
| ELL6□H270M | 27.0                                        | 260                                            | 160  | 650                            | 800  | 270     |
| ELL6□H330M | 33.0                                        | 380                                            | 180  | 600                            | 700  | 330     |
| ELL6□H390M | 39.0                                        | 410                                            | 240  | 550                            | 650  | 390     |
| ELL6□H470M | 47.0                                        | 480                                            | 270  | 500                            | 600  | 470     |
| ELL6□H560M | 56.0                                        | 540                                            | 290  | 450                            | 550  | 560     |
| ELL6□H680M | 68.0                                        | 770                                            | 520  | 400                            | 500  | 680     |
| ELL6□H820M | 82.0                                        | 870                                            | 600  | 350                            | 450  | 820     |
| ELL6□H101M | 100.0                                       | 1000                                           | 680  | 300                            | 400  | 101     |
| ELL6□H121M | 120.0                                       | 1500                                           | 750  | 280                            | 370  | 121     |
| ELL6□H151M | 150.0                                       | 1800                                           | 860  | 250                            | 350  | 151     |
| ELL6□H181M | 180.0                                       | 2000                                           | 1300 | 230                            | 300  | 181     |
| ELL6□H221M | 220.0                                       | 2300                                           | 1400 | 200                            | 280  | 221     |
| ELL6□H271M | 270.0                                       | —                                              | 2400 | —                              | 260  | 271     |
| ELL6□H331M | 330.0                                       | —                                              | 2700 | —                              | 240  | 331     |
| ELL6□H391M | 390.0                                       | —                                              | 2800 | —                              | 210  | 391     |
| ELL6□H471M | 470.0                                       | —                                              | 3200 | —                              | 200  | 471     |
| ELL6□H561M | 560.0                                       | —                                              | 3700 | —                              | 180  | 561     |
| ELL6□H681M | 680.0                                       | —                                              | 4300 | —                              | 160  | 681     |

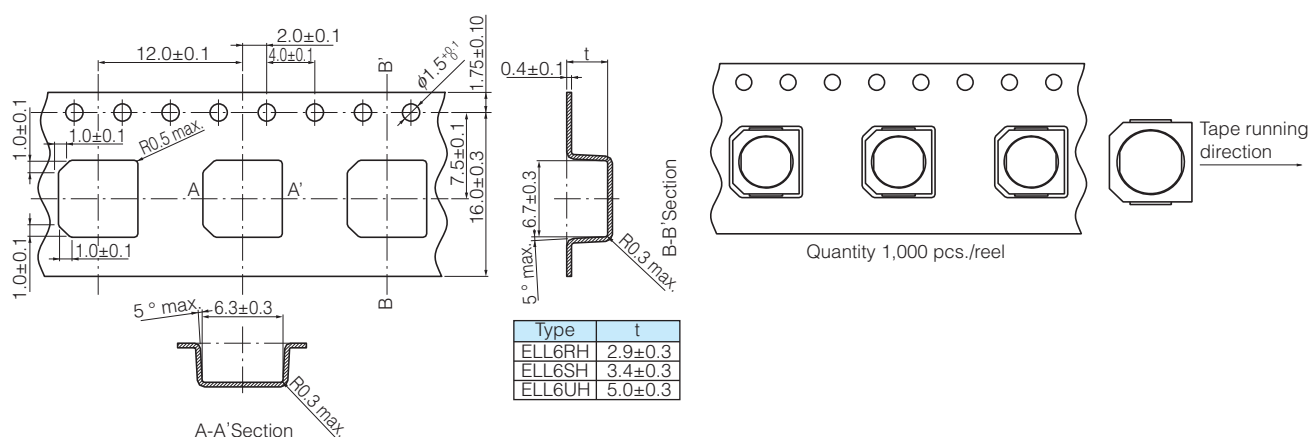
\* Current : This indicates the value of current when the inductance is 80% of nominal value or when the case temperature has risen 45 °C.

## Standard Parts

| Part No.   | Inductance (μH)<br>at 100 kHz<br>Tol. ±20 % | R <sub>DC</sub> (mΩ)<br>at 20 °C<br>Tol. ±20 % | Rated<br>Current*<br>(mA) max. | Marking |
|------------|---------------------------------------------|------------------------------------------------|--------------------------------|---------|
| ELL6UH100M | 10.0                                        | 63                                             | 1800                           | 100     |
| ELL6UH120M | 12.0                                        | 71                                             | 1700                           | 120     |
| ELL6UH150M | 15.0                                        | 79                                             | 1600                           | 150     |
| ELL6UH180M | 18.0                                        | 88                                             | 1400                           | 180     |
| ELL6UH220M | 22.0                                        | 98                                             | 1300                           | 220     |
| ELL6UH270M | 27.0                                        | 110                                            | 1200                           | 270     |
| ELL6UH330M | 33.0                                        | 130                                            | 1100                           | 330     |
| ELL6UH390M | 39.0                                        | 150                                            | 1000                           | 390     |
| ELL6UH470M | 47.0                                        | 160                                            | 900                            | 470     |
| ELL6UH560M | 56.0                                        | 210                                            | 800                            | 560     |
| ELL6UH680M | 68.0                                        | 230                                            | 700                            | 680     |
| ELL6UH820M | 82.0                                        | 260                                            | 650                            | 820     |
| ELL6UH101M | 100.0                                       | 360                                            | 600                            | 101     |
| ELL6UH121M | 120.0                                       | 480                                            | 580                            | 121     |
| ELL6UH151M | 150.0                                       | 680                                            | 500                            | 151     |
| ELL6UH181M | 180.0                                       | 750                                            | 470                            | 181     |
| ELL6UH221M | 220.0                                       | 840                                            | 410                            | 221     |
| ELL6UH271M | 270.0                                       | 1200                                           | 370                            | 271     |
| ELL6UH331M | 330.0                                       | 1360                                           | 330                            | 331     |
| ELL6UH391M | 390.0                                       | 1500                                           | 300                            | 391     |
| ELL6UH471M | 470.0                                       | 1680                                           | 270                            | 471     |
| ELL6UH561M | 560.0                                       | 2530                                           | 260                            | 561     |
| ELL6UH681M | 680.0                                       | 2830                                           | 240                            | 681     |
| ELL6UH821M | 820.0                                       | 3140                                           | 200                            | 821     |
| ELL6UH102M | 1000.0                                      | 3670                                           | 180                            | 102     |

\* Current : This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45 °C.

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



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[ELL-6RH1R5M](#) [ELL-6RH220M](#) [ELL-6RH2R7M](#) [ELL-6RH3R3M](#) [ELL-6RH6R2M](#) [ELL-6SH100M](#) [ELL-6SH101M](#) [ELL-](#)  
[6SH181M](#) [ELL-6SH1R0M](#) [ELL-6SH220M](#) [ELL-6SH330M](#) [ELL-6SH471M](#) [ELL-6RH101M](#) [ELL-6RH120M](#) [ELL-](#)  
[6RH121M](#) [ELL-6RH151M](#) [ELL-6RH180M](#) [ELL-6RH181M](#) [ELL-6RH221M](#) [ELL-6RH270M](#) [ELL-6RH330M](#) [ELL-](#)  
[6RH390M](#) [ELL-6RH560M](#) [ELL-6RH5R1M](#) [ELL-6RH680M](#) [ELL-6RH7R5M](#) [ELL-6RH8R2M](#) [ELL-6SH120M](#) [ELL-](#)  
[6SH121M](#) [ELL-6SH150M](#) [ELL-6SH151M](#) [ELL-6SH180M](#) [ELL-6SH1R5M](#) [ELL-6SH221M](#) [ELL-6SH270M](#) [ELL-](#)  
[6SH271M](#) [ELL-6SH2R7M](#) [ELL-6SH331M](#) [ELL-6SH390M](#) [ELL-6SH391M](#) [ELL-6SH560M](#) [ELL-6SH561M](#) [ELL-](#)  
[6SH680M](#) [ELL-6SH681M](#) [ELL-6SH6R8M](#) [ELL-6SH820M](#) [ELL-6SH8R2M](#) [ELL-6UH100M](#) [ELL-6UH101M](#) [ELL-](#)  
[6UH102M](#) [ELL-6UH120M](#) [ELL-6UH121M](#) [ELL-6UH150M](#) [ELL-6UH151M](#) [ELL-6UH180M](#) [ELL-6UH181M](#) [ELL-](#)  
[6UH220M](#) [ELL-6UH221M](#) [ELL-6UH270M](#) [ELL-6UH271M](#) [ELL-6UH330M](#) [ELL-6UH331M](#) [ELL-6UH390M](#) [ELL-](#)  
[6UH391M](#) [ELL-6UH471M](#) [ELL-6UH560M](#) [ELL-6UH561M](#) [ELL-6UH680M](#) [ELL-6UH681M](#) [ELL-6UH820M](#) [ELL-](#)  
[6UH821M](#) [ELL-6RH470M](#) [ELL-6RH820M](#) [ELL-6SH3R3M](#)



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