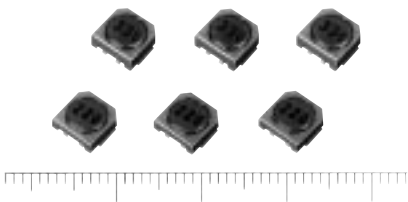


SMD Choke Coils

Singapore

Series: **Magnetic shielded type**

Type: **ELL6□H**



SMD type choke coils (2.5 mm, 3.0 mm)

ELL 6□H  
Type

■ Features

- Thin type (height 2.5 mm, 3.0 mm)
- Higher reliability in mounting by separated user terminal and internal connection.
- Capable of corresponding big current

■ Recommended Applications

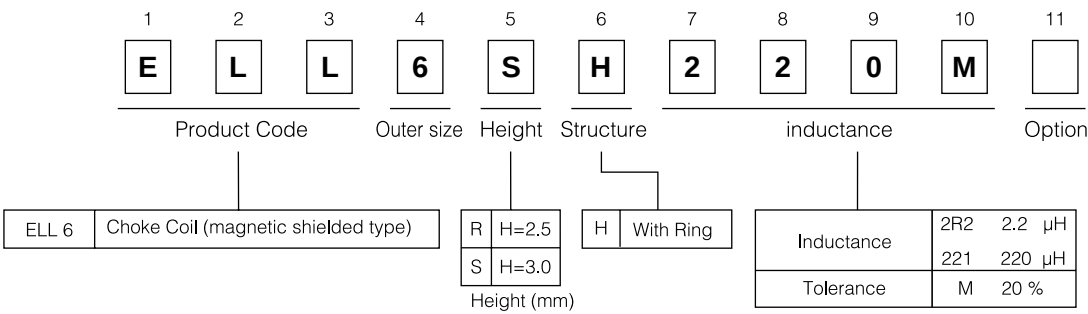
- Videos, Audio, Mobile communications, Electric battery driving equipment
- Choke coils for Chopper circuit decoupling choked in DC/DC convertor circuit

■ Cautions for Use

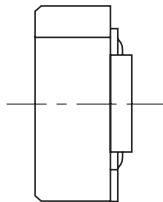
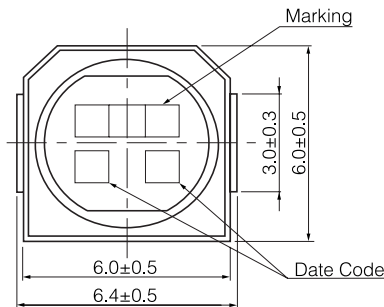
Convertor electric power of DC/DC convertor

- Chopper type : 1 W max.
- Operating temperature
- 105 °C max. (Including self-temperature rise)

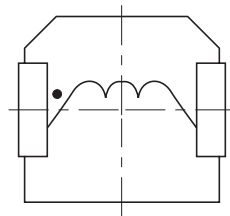
■ Explanation of Part Numbers



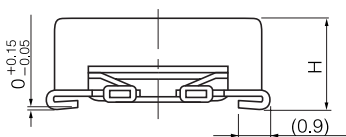
### ■ Dimensions in mm (not to scale)



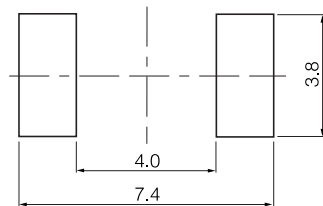
### ■ Connections (Top view)



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



| Type   | Height     |
|--------|------------|
| ELL6RH | 2.5±0.3 mm |
| ELL6SH | 3.0±0.3 mm |



### ■ Characteristics (Reference)

| Inductance<br>at 100 kHz<br>Tol. ± 20 % | DCR<br>at 20 °C<br>Tol. ± 20 % |                    | Current (max.)     |                    | Marking |
|-----------------------------------------|--------------------------------|--------------------|--------------------|--------------------|---------|
|                                         | ELL6RH<br>H=2.5 mm             | ELL6SH<br>H=3.0 mm | ELL6RH<br>H=2.5 mm | ELL6SH<br>H=3.0 mm |         |
| 1.0 µH                                  | 0.019 Ω                        | 0.019 Ω            | 3000 mA            | 3400 mA            | 1R0     |
| 1.5                                     | 0.024                          | 0.024              | 2400               | 3200               | 1R5     |
| 2.7                                     | 0.039                          | 0.031              | 1800               | 2400               | 2R7     |
| 3.3                                     | 0.044                          | 0.034              | 1600               | 2200               | 3R3     |
| 4.7                                     | —                              | 0.042              | —                  | 2000               | 4R7     |
| 5.1                                     | 0.056                          | —                  | 1550               | —                  | 5R1     |
| 5.6                                     | —                              | 0.049              | —                  | 1800               | 5R6     |
| 6.2                                     | 0.062                          | —                  | 1400               | —                  | 6R2     |
| 6.8                                     | —                              | 0.052              | —                  | 1500               | 6R8     |
| 7.5                                     | 0.080                          | —                  | 1250               | —                  | 7R5     |
| 8.2                                     | 0.087                          | 0.061              | 1200               | 1400               | 8R2     |
| 10                                      | 0.095                          | 0.065              | 1100               | 1300               | 100     |
| 12                                      | 0.13                           | 0.071              | 1000               | 1200               | 120     |
| 15                                      | 0.15                           | 0.096              | 850                | 1100               | 150     |
| 18                                      | 0.17                           | 0.11               | 800                | 1000               | 180     |
| 22                                      | 0.22                           | 0.14               | 700                | 900                | 220     |
| 27                                      | 0.26                           | 0.16               | 650                | 800                | 270     |
| 33                                      | 0.38                           | 0.18               | 600                | 700                | 330     |
| 39                                      | 0.41                           | 0.24               | 550                | 650                | 390     |
| 47                                      | 0.48                           | 0.27               | 500                | 600                | 470     |
| 56                                      | 0.54                           | 0.29               | 450                | 550                | 560     |
| 68                                      | 0.77                           | 0.52               | 400                | 500                | 680     |
| 82                                      | 0.87                           | 0.60               | 350                | 450                | 820     |
| 100                                     | 1.00                           | 0.68               | 300                | 400                | 101     |
| 120                                     | 1.50                           | 0.75               | 280                | 370                | 121     |
| 150                                     | 1.80                           | 0.86               | 250                | 350                | 151     |
| 180                                     | 2.00                           | 1.20               | 230                | 300                | 181     |

\* Current: This indicates the value of current when the inductance is 80% more than nominal value and temperature rising Δt=45 °C lower at D.C superposition. (at 20 °C)