

### SMD Choke Coils

Series: **G**  
 Type: **ELLVEG**  
**ELLVFG-C**  
**ELLVGG**



#### ■ Features

- Magnetically shielded structure
- Low DC resistance and large current capability
- Shock resistant

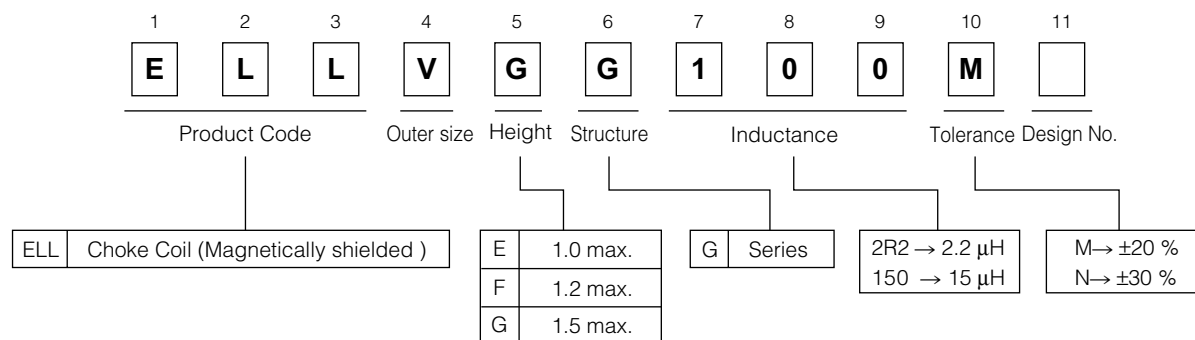
#### ■ Recommended Applications

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

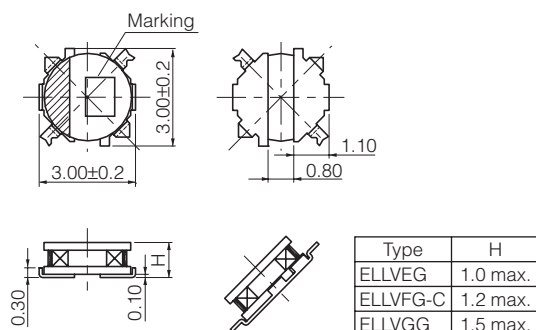
#### ■ Standard Packing Quantity

- 2000 pcs./Reel

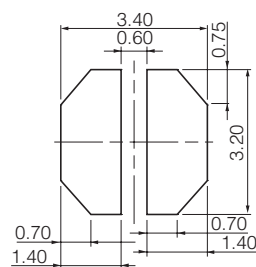
#### ■ Explanation of Part Numbers



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



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



## Standard Parts

| Series        | Part Number | Inductance<br>(100 kHz) |       | R <sub>DC</sub><br>(at 20 °C) |       | Saturation Rated<br>Current* <sup>1</sup><br>(mA max.) | Temperature<br>Rise Current* <sup>2</sup><br>(mA max.) | Marking |
|---------------|-------------|-------------------------|-------|-------------------------------|-------|--------------------------------------------------------|--------------------------------------------------------|---------|
|               |             | (μH)                    | Tol.  | (mΩ)                          | Tol.  |                                                        |                                                        |         |
| VEG<br>Series | ELLVEG1R0N  | 1.0                     | ±30 % | 61                            | ±20 % | 1900                                                   | 1600                                                   | A       |
|               | ELLVEG1R5N  | 1.5                     |       | 74                            |       | 1200                                                   | 1400                                                   | C       |
|               | ELLVEG2R2N  | 2.2                     |       | 110                           |       | 1100                                                   | 1250                                                   | D       |
|               | ELLVEG3R3N  | 3.3                     |       | 210                           |       | 1000                                                   | 820                                                    | E       |
|               | ELLVEG4R7N  | 4.7                     |       | 240                           |       | 750                                                    | 770                                                    | H       |
|               | ELLVEG6R8N  | 6.8                     | ±20 % | 350                           |       | 580                                                    | 650                                                    | K       |
|               | ELLVEG100M  | 10.0                    |       | 480                           |       | 520                                                    | 600                                                    | M       |
|               | ELLVEG150M  | 15.0                    |       | 710                           |       | 430                                                    | 490                                                    | O       |
|               | ELLVEG220M  | 22.0                    |       | 1200                          |       | 330                                                    | 400                                                    | R       |
|               | ELLVEG330M  | 33.0                    |       | 2300                          |       | 260                                                    | 290                                                    | T       |
|               | ELLVEG470M  | 47.0                    |       | 2700                          |       | 220                                                    | 250                                                    | V       |
| VFG<br>Series | ELLVFG1R0NC | 1.0                     | ±30 % | 50                            |       | 1500                                                   | 1700                                                   | a       |
|               | ELLVFG1R5NC | 1.5                     |       | 61                            |       | 1300                                                   | 1550                                                   | c       |
|               | ELLVFG2R2NC | 2.2                     |       | 87                            |       | 1100                                                   | 1400                                                   | d       |
|               | ELLVFG3R3NC | 3.3                     |       | 110                           |       | 980                                                    | 1250                                                   | e       |
|               | ELLVFG4R7NC | 4.7                     | ±20 % | 150                           |       | 740                                                    | 1050                                                   | h       |
|               | ELLVFG6R8MC | 6.8                     |       | 230                           |       | 600                                                    | 840                                                    | k       |
|               | ELLVFG100MC | 10.0                    |       | 380                           |       | 550                                                    | 640                                                    | m       |
|               | ELLVFG150MC | 15.0                    |       | 540                           |       | 500                                                    | 480                                                    | o       |
|               | ELLVFG220MC | 22.0                    |       | 710                           |       | 350                                                    | 430                                                    | r       |
|               | ELLVFG330MC | 33.0                    |       | 1160                          |       | 280                                                    | 330                                                    | t       |
| VGG<br>Series | ELLVGG1R0N  | 1.0                     | ±30 % | 52                            | ±20 % | 2200                                                   | 1800                                                   | A       |
|               | ELLVGG1R6N  | 1.6                     |       | 73                            |       | 1800                                                   | 1550                                                   | C       |
|               | ELLVGG2R2N  | 2.2                     |       | 92                            |       | 1600                                                   | 1400                                                   | D       |
|               | ELLVGG3R3N  | 3.3                     |       | 130                           |       | 1350                                                   | 1100                                                   | E       |
|               | ELLVGG3R9N  | 3.9                     |       | 150                           |       | 1300                                                   | 1000                                                   | F       |
|               | ELLVGG4R7N  | 4.7                     | ±20 % | 170                           |       | 1200                                                   | 980                                                    | H       |
|               | ELLVGG6R8N  | 6.8                     |       | 230                           |       | 1000                                                   | 800                                                    | K       |
|               | ELLVGG100M  | 10.0                    |       | 280                           |       | 800                                                    | 730                                                    | M       |
|               | ELLVGG120M  | 12.0                    |       | 480                           |       | 690                                                    | 580                                                    | N       |
|               | ELLVGG150M  | 15.0                    |       | 640                           |       | 600                                                    | 490                                                    | O       |
|               | ELLVGG220M  | 22.0                    |       | 800                           |       | 500                                                    | 460                                                    | R       |
|               | ELLVGG330M  | 33.0                    |       | 1330                          |       | 450                                                    | 340                                                    | T       |
|               | ELLVGG470M  | 47.0                    |       | 2100                          |       | 350                                                    | 270                                                    | V       |

\*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 dt/t= 40 °C (at 20 °C).

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

