

## Power Inductors / Wire Wound type

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



### ■ Features

- Magnetic shielded structure
- Low DC resistance and large current capability
- Shock resistant
- RoHS compliant

### ■ Recommended Applications

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

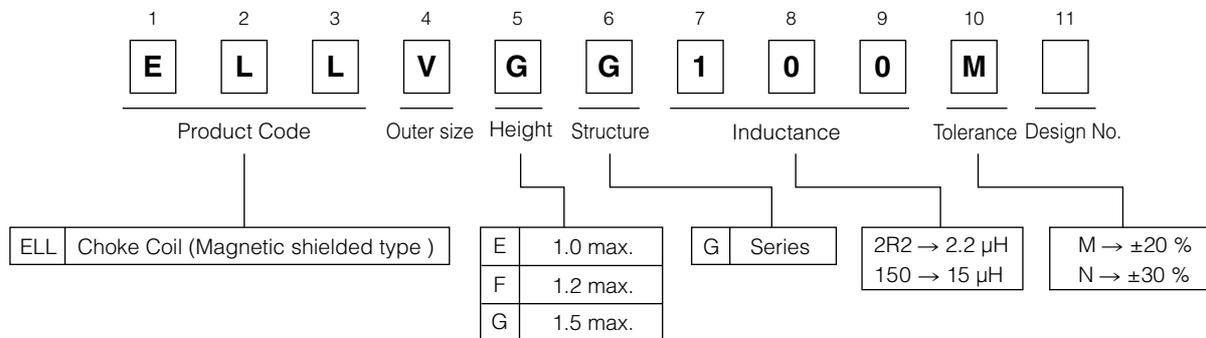
### ■ Standard Packing Quantity

- 2000 pcs./Reel

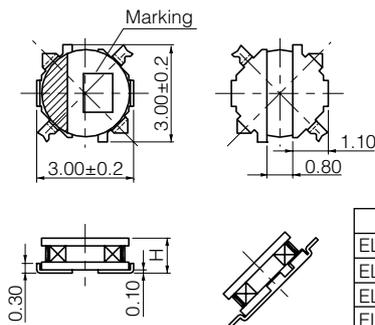
### ■ Soldering Conditions and Safety Precautions

Please see Data Files

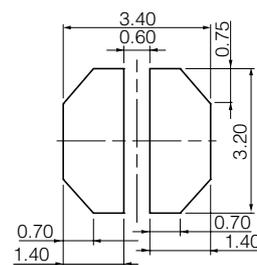
### ■ Explanation of Part Numbers



### ■ Dimensions in mm (not to scale)



### ■ Recommended land 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*1<br>(mA max.) | Temperature<br>Rise Current*2<br>(mA max.) | Marking |
|-----------------|-----------------|-------------------------|-------|-------------------------------|-------|--|--|---------|
|                 |                 | (μH)                    | Tol.  | (mΩ)                          | Tol.  |  |  |         |
| Series<br>VEG   | ELLVEGR68N      | 0.68                    | ±30 % | 50                            | ±20 % | 1950                                       | 1800                                       | 7       |
|                 | ELLVEG1R0N      | 1.0                     |       | 61                            |       | 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                     |       | 350                           |       | 580  | 650  | K       |
|                 | ELLVEG100M      | 10.0                    | ±20 % | 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       |
|                 | ELLVEG680M      | 68.0                    |       | 3500                          |       | 180  | 220  | X       |
|                 | Series<br>VFG-C | ELLVFG1R0NC             |       | 1.0                           |       | ±30 %                                      | 50   | 1500    |
| ELLVFG1R5NC     |                 | 1.5                     | 61    | 1300                          | 1550  |  | c  |         |
| ELLVFG2R2NC     |                 | 2.2                     | 87    | 1100                          | 1400  |  | d  |         |
| ELLVFG3R3NC     |                 | 3.3                     | 110   | 980                           | 1250  |  | e  |         |
| ELLVFG4R7NC     |                 | 4.7                     | 150   | 740                           | 1050  |  | h  |         |
| ELLVFG6R8NC     |                 | 6.8                     | 230   | 600                           | 840   | k  |  |         |
| ELLVFG100MC     |                 | 10.0                    | ±20 % | 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  |         |
| Series<br>VGG   | ELLVGG1R0N      | 1.0                     |       | ±30 %                         | 52    | ±20 %                                      | 2200                                       | 1800    |
|                 | ELLVGG1R2N      | 1.2                     | 61    |                               | 2000  |  | 1600                                       | B       |
|                 | 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                     | 170   |                               | 1200  |  | 980  | H       |
|                 | ELLVGG6R8N      | 6.8                     | 230   | 1000                          | 800   |  | K  |         |
|                 | ELLVGG100M      | 10.0                    | ±20 % | 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       |
| Series<br>VGG-C | ELLVGG1R0NC     | 1.0                     |       | ±30 %                         | 47    | 1400                                       | 2000                                       | A       |
|                 | ELLVGG2R2NC     | 2.2                     | 79    |                               | 1050  | 1500                                       | D  |         |
|                 | ELLVGG3R3NC     | 3.3                     | 110   |                               | 1000  | 1300                                       | E  |         |
|                 | ELLVGG4R7NC     | 4.7                     | 130   |                               | 900   | 1200                                       | H  |         |
|                 | ELLVGG6R8NC     | 6.8                     | 180   |                               | 700   | 1000                                       | K  |         |
|                 | ELLVGG100MC     | 10.0                    | ±20 % | 260                           | 600   | 860  | M  |         |
|                 | ELLVGG120MC     | 12.0                    |       | 280                           | 550   | 730  | N  |         |
|                 | ELLVGG150MC     | 15.0                    |       | 420                           | 450   | 670  | O  |         |
|                 | ELLVGG220MC     | 22.0                    |       | 530                           | 410   | 600  | R  |         |
|                 | ELLVGG330MC     | 33.0                    |       | 790                           | 350   | 450  | T  |         |
|                 | ELLVGG470MC     | 47.0                    |       | 1200                          | 260   | 360  | V  |         |
|                 | ELLVGG101MC     | 100                     |       | 2950                          | 180   | 250  | Z  |         |

\*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)

