

SMD Choke Coils

Singapore

Series: **M**

Type: **ELL5□M**



Type ELL5□M

■ Features

- Magnetic shielded structure
- Low DC resistance and large current capability
- Shock resistant structure
- Available on tape and reel for automatic insertion

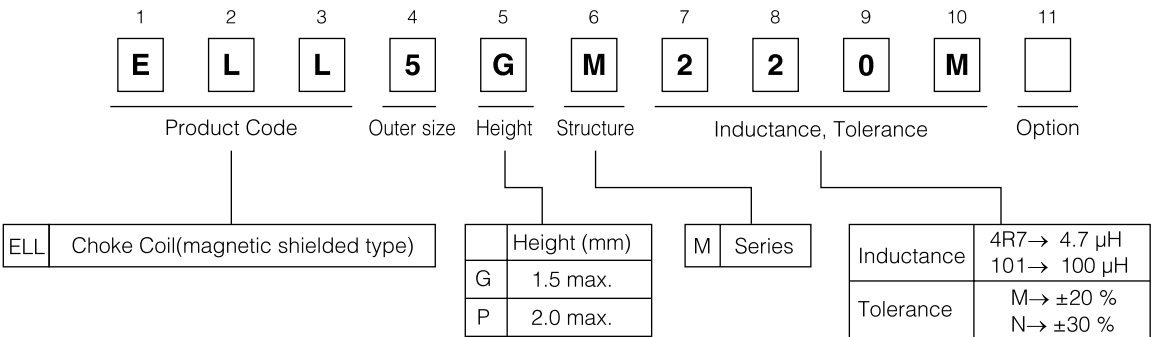
■ Recommended Applications

- DC/DC converter circuitry for computer peripherals and cellular hand sets.
- Chopper circuit decoupling chokes in DC/DC converter circuitry

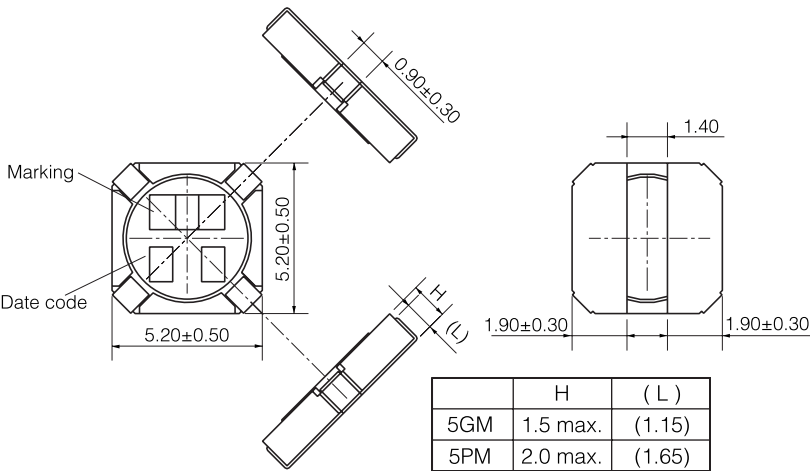
■ Standard Packing Quantity

- 2000 pcs./Reel

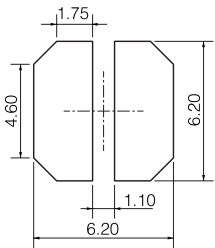
■ Explanation of Part Numbers



■ Dimensions in mm (not to scale)



■ Recommended Land Pattern in mm (not to scale)

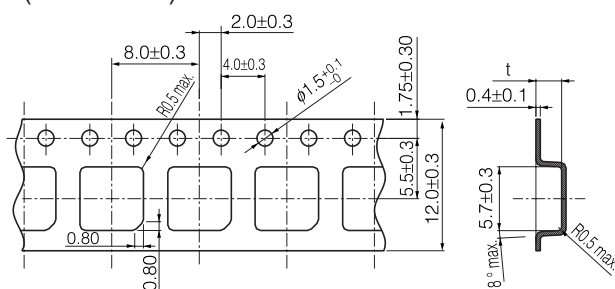


## ■ Standard Parts

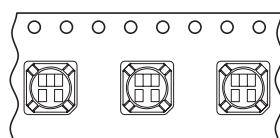
| Part No.   | Inductance (100 kHz) |           | RDC (at 20 °C) |           | * Current (mA) max. | Marking |
|------------|----------------------|-----------|----------------|-----------|---------------------|---------|
|            | (μH)                 | Tolerance | (mΩ)           | Tolerance |                     |         |
| ELL5GM1R0N | 1.0                  | ±30 %     | 32             |           | 2200                | 1R0     |
| ELL5GM2R2N | 2.2                  |           | 53             |           | 1600                | 2R2     |
| ELL5GM3R6N | 3.6                  |           | 70             |           | 1300                | 3R6     |
| ELL5GM4R7N | 4.7                  |           | 92             |           | 1100                | 4R7     |
| ELL5GM5R6N | 5.6                  |           | 100            |           | 1000                | 5R6     |
| ELL5GM6R8N | 6.8                  |           | 120            |           | 900                 | 6R8     |
| ELL5GM8R2N | 8.2                  |           | 140            |           | 850                 | 8R2     |
| ELL5GM100M | 10.0                 | ±20 %     | 150            |           | 750                 | 100     |
| ELL5GM120M | 12.0                 |           | 210            |           | 700                 | 120     |
| ELL5GM150M | 15.0                 |           | 250            |           | 650                 | 150     |
| ELL5GM180M | 18.0                 |           | 270            |           | 600                 | 180     |
| ELL5GM220M | 22.0                 |           | 380            |           | 500                 | 220     |
| ELL5GM270M | 27.0                 |           | 430            |           | 450                 | 270     |
| ELL5GM330M | 33.0                 |           | 490            |           | 400                 | 330     |
| ELL5PM1R2N | 1.2                  | ±30 %     | 23             | ±20 %     | 2500                | 1R2     |
| ELL5PM1R8N | 1.8                  |           | 27             |           | 2300                | 1R8     |
| ELL5PM2R4N | 2.4                  |           | 32             |           | 2050                | 2R4     |
| ELL5PM3R0N | 3.0                  |           | 36             |           | 1800                | 3R0     |
| ELL5PM3R9N | 3.9                  |           | 47             |           | 1600                | 3R9     |
| ELL5PM4R7N | 4.7                  |           | 53             |           | 1500                | 4R7     |
| ELL5PM5R6N | 5.6                  |           | 68             |           | 1350                | 5R6     |
| ELL5PM6R8N | 6.8                  | ±20 %     | 74             |           | 1200                | 6R8     |
| ELL5PM8R2N | 8.2                  |           | 81             |           | 1050                | 8R2     |
| ELL5PM100M | 10.0                 |           | 97             |           | 1000                | 100     |
| ELL5PM120M | 12.0                 |           | 120            |           | 850                 | 120     |
| ELL5PM150M | 15.0                 |           | 140            |           | 800                 | 150     |
| ELL5PM180M | 18.0                 |           | 180            |           | 720                 | 180     |
| ELL5PM220M | 22.0                 |           | 210            |           | 680                 | 220     |
| ELL5PM270M | 27.0                 |           | 230            |           | 550                 | 270     |
| ELL5PM330M | 33.0                 |           | 270            |           | 530                 | 330     |
| ELL5PM390M | 39.0                 |           | 390            |           | 480                 | 390     |
| ELL5PM470M | 47.0                 |           | 440            |           | 450                 | 470     |
| ELL5PM560M | 56.0                 |           | 610            |           | 400                 | 560     |
| ELL5PM680M | 68.0                 |           | 700            |           | 350                 | 680     |
| ELL5PM820M | 82.0                 |           | 780            |           | 320                 | 820     |

\* Current: This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45 °C (at 20 °C)

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



|        | t         |
|--------|-----------|
| ELL5GM | 1.75±0.30 |
| ELL5PM | 2.15±0.30 |



Quantity 2000 pcs./reel



Tape running direction

## ■ Date code

Indication method of products manufacture

Indication method of date code

| Month     | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|-----------|---|---|---|---|---|---|---|---|---|----|----|----|
| Year      |   |   |   |   |   |   |   |   |   |    |    |    |
| Odd year  | A | B | C | D | E | F | H | I | J | K  | L  | M  |
| Even year | N | O | P | R | S | T | U | V | W | X  | Y  | Z  |