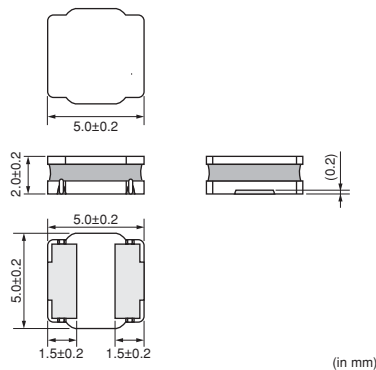


# Chip Inductor (Chip Coil) Power Inductor (Wire Wound Type)

## LQH5BP\_T0 Series (2020 Size)

### ■ Dimensions



### ■ Packaging

| Code | Packaging           | Minimum Quantity |
|------|---------------------|------------------|
| L    | 180mm Embossed Tape | 500              |
| K    | 330mm Embossed Tape | 3000             |

### ■ Rated Value (□: packaging code)

| Part Number    | Inductance  | Rated Current<br>(Based on Inductance Change) | Rated Current<br>(Based on Temperature Rise) | DC Resistance | Self Resonance<br>Frequency (min.) |
|----------------|-------------|-----------------------------------------------|----------------------------------------------|---------------|------------------------------------|
| LQH5BPNR47NT0□ | 0.47μH ±30% | 7.7A                                          | 4.0A                                         | 0.012ohm ±20% | 220MHz                             |
| LQH5BPN1R0NT0□ | 1.0μH ±30%  | 5.8A                                          | 3.1A                                         | 0.019ohm ±20% | 90MHz                              |
| LQH5BPN1R2NT0□ | 1.2μH ±30%  | 5.4A                                          | 3.1A                                         | 0.019ohm ±20% | 90MHz                              |
| LQH5BPN1R5NT0□ | 1.5μH ±30%  | 5.0A                                          | 3.0A                                         | 0.024ohm ±20% | 70MHz                              |
| LQH5BPN2R2NT0□ | 2.2μH ±30%  | 4.0A                                          | 2.6A                                         | 0.030ohm ±20% | 55MHz                              |
| LQH5BPN2R7NT0□ | 2.7μH ±30%  | 3.8A                                          | 2.5A                                         | 0.035ohm ±20% | 50MHz                              |
| LQH5BPN3R3NT0□ | 3.3μH ±30%  | 3.5A                                          | 2.3A                                         | 0.044ohm ±20% | 40MHz                              |
| LQH5BPN4R7NT0□ | 4.7μH ±30%  | 3.0A                                          | 2.0A                                         | 0.058ohm ±20% | 40MHz                              |
| LQH5BPN6R8NT0□ | 6.8μH ±30%  | 2.5A                                          | 1.65A                                        | 0.083ohm ±20% | 30MHz                              |
| LQH5BPN100MT0□ | 10μH ±20%   | 2.0A                                          | 1.60A                                        | 0.106ohm ±20% | 25MHz                              |
| LQH5BPN150MT0□ | 15μH ±20%   | 1.6A                                          | 1.20A                                        | 0.187ohm ±20% | 18MHz                              |
| LQH5BPN220MT0□ | 22μH ±20%   | 1.4A                                          | 1.05A                                        | 0.259ohm ±20% | 15MHz                              |

Test Frequency: 100kHz Class of Magnetic Shield: Magnetic shield of magnetic powder in resin

Operating Temperature Range (Self-temperature rise is included): -40 to +125°C

Operating Temperature Range (Self-temperature rise is not included): -40 to +85°C

Only for reflow soldering.

### ■ Notice (Rated Current)

When Rated Current is applied to the Products,  
Inductance will be within ±30% of nominal  
Inductance value.

When Rated Current is applied to the Products,  
self-generation of heat will rise to 40°C or less.

Continued on the following page.

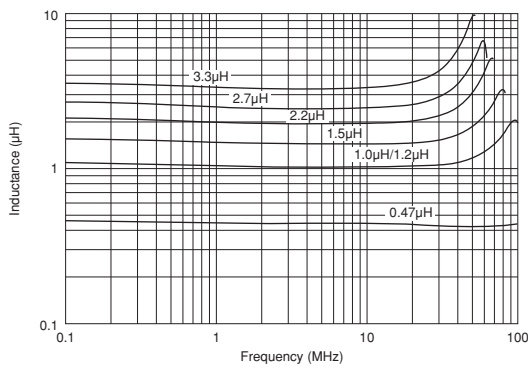
● This data sheet is applied for CHIP INDUCTORS (CHIP COILS) used for General Electronics equipment for your design.

### ⚠ Note:

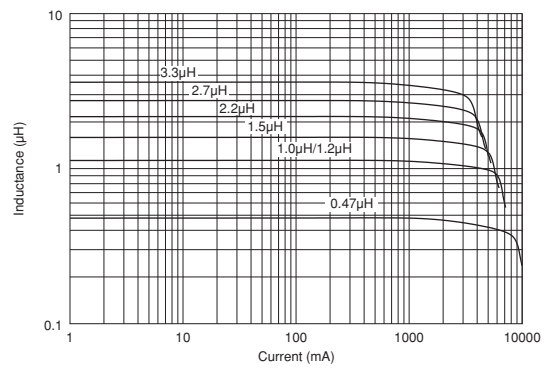
1. This datasheet is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering.

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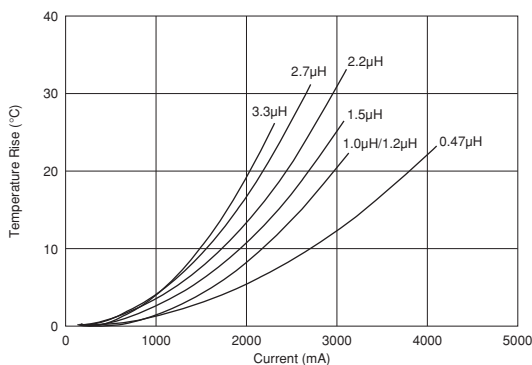
### Inductance-Frequency Characteristics (Typ.)



### Inductance-Current Characteristics (Typ.)



### Temperature Rise Characteristics (Typ.)



### Caution/Notice

#### Caution (Rating)

Do not use products beyond the rated current as this may create excessive heat.

#### Notice

Solderability of Tin plating termination chip might be deteriorated when low temperature soldering profile where peak solder temperature is below the Tin melting point is used. Please confirm the solderability of Tin plating termination chip before use.

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- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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