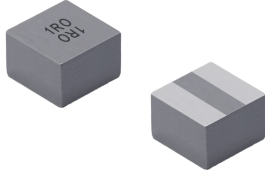


## SPM Series

### SMT Power Metal Inductor

#### Size 3020

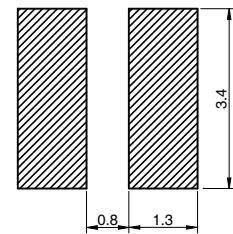
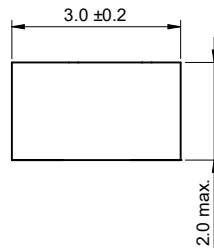
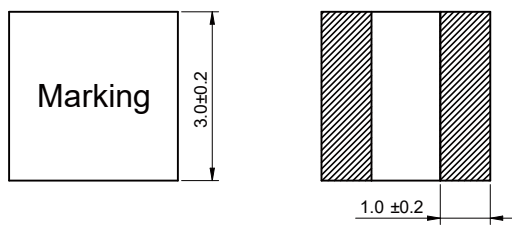


#### FEATURES

- Large current, Low DC-resistance, High efficiency by magnetic metal powder
- Low acoustic noise and low leakage flux noise by shielded construction
- AEC-Q200 Compliant
- Operating temperature: -40 °C ~125 °C
- Quantity: 1000 pcs/reel

#### Dimensions: [mm]

#### Land Pattern: [mm]



#### Electrical Properties:

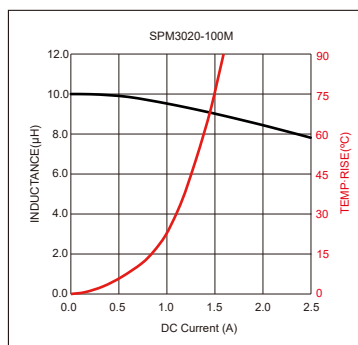
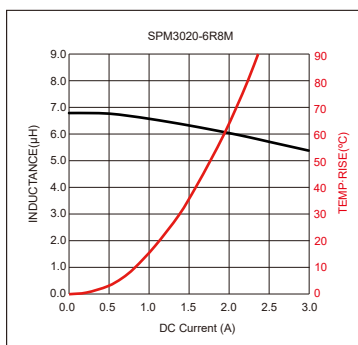
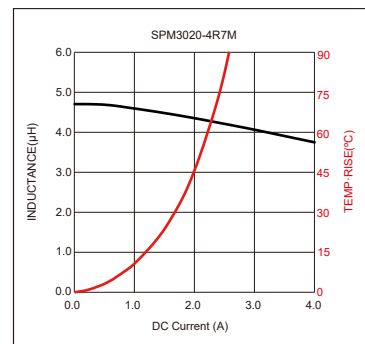
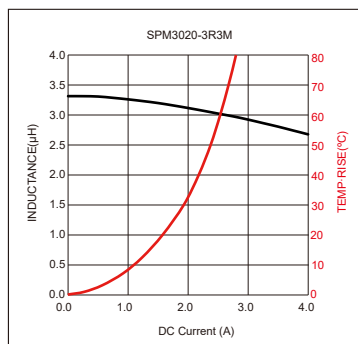
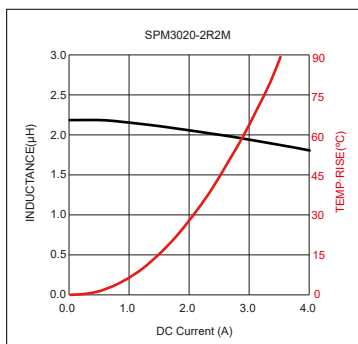
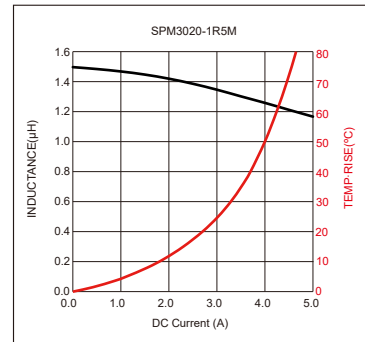
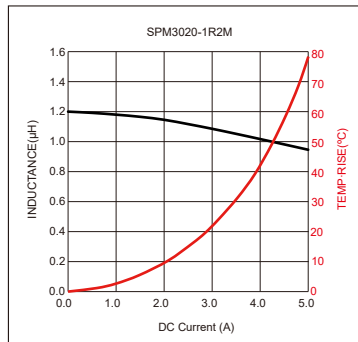
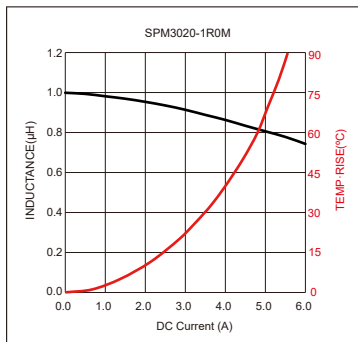
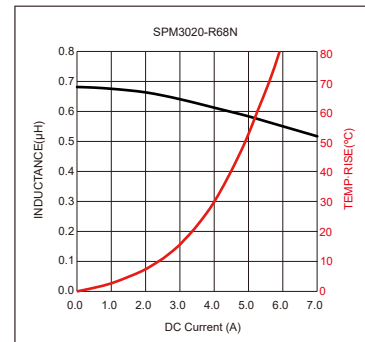
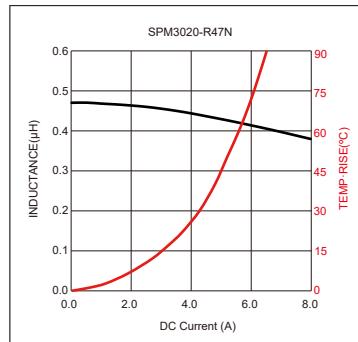
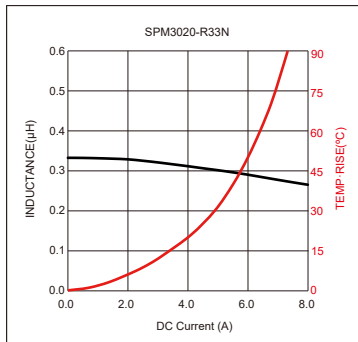
| Part No      | Inductance (μH) | Tolerance | Temperature Rise Current Typ. (A) | Saturation Current Typ. (A) | DCR Max. (mΩ) | DCR Typ. (mΩ) |
|--------------|-----------------|-----------|-----------------------------------|-----------------------------|---------------|---------------|
| SPM3020-R33N | 0.33            | ± 30%     | 5.5                               | 6.8                         | 17            | 14            |
| SPM3020-R47N | 0.47            | ± 30%     | 4.8                               | 6.2                         | 22            | 18            |
| SPM3020-R68N | 0.68            | ± 30%     | 4.5                               | 5.2                         | 27            | 22            |
| SPM3020-1R0M | 1.0             | ± 20%     | 4.0                               | 4.2                         | 32            | 26            |
| SPM3020-1R2M | 1.2             | ± 20%     | 3.9                               | 4.0                         | 36            | 30            |
| SPM3020-1R5M | 1.5             | ± 20%     | 3.7                               | 3.9                         | 39            | 33            |
| SPM3020-2R2M | 2.2             | ± 20%     | 2.4                               | 3.6                         | 80            | 67            |
| SPM3020-3R3M | 3.3             | ± 20%     | 2.2                               | 3.4                         | 114           | 99            |
| SPM3020-4R7M | 4.7             | ± 20%     | 1.9                               | 3.0                         | 158           | 137           |
| SPM3020-6R8M | 6.8             | ± 20%     | 1.6                               | 2.3                         | 193           | 168           |
| SPM3020-100M | 10              | ± 20%     | 1.2                               | 2.0                         | 322           | 280           |

Inductance is measured at 100kHz, 1V

Temperature rise current: the actual value of DC current when the temperature rise is ΔT40 °C

Saturation Current that will cause initial inductance to drop approximately 20%

## Typical Electrical Characteristics:



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