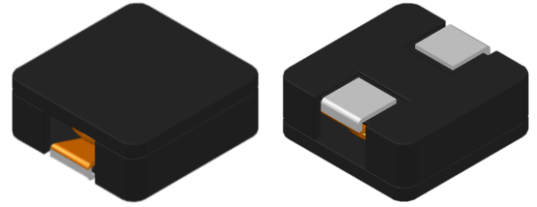


# CMI-SSMF2201 20MH-SERIES

## Features

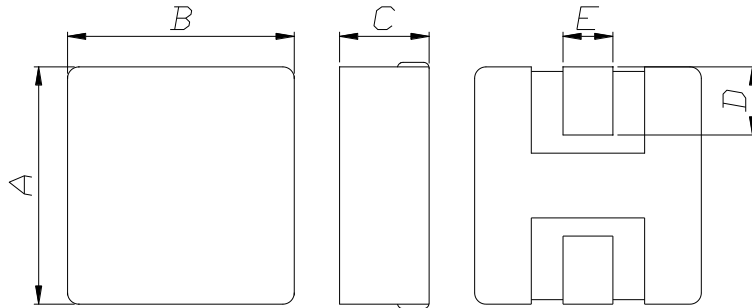
- ▶ High current and low profile/ Low DC resistance
- ▶ Magnetic shielding for high-density packaging
- ▶ Available tape and reel for auto insertion.
- ▶ Halogen-Free / RoHS compliant.



## Applications

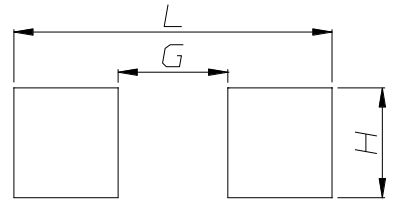
- ▶ Graphic cards / Industrial computers, DC/DC converters / Motherboards / Filter, High current switching regulators / Polyphase-switching regulations

**Dimension (Unit:mm)**



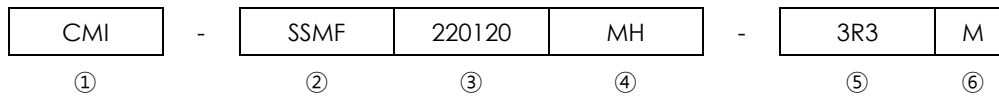
| Value   | A        | B        | C        | D       | E       |
|---------|----------|----------|----------|---------|---------|
| 3R3~330 | 22.5±1.0 | 22.0±0.5 | 12.0±0.4 | 5.0±0.5 | 4.0±0.3 |
| 390~560 |          |          |          |         | 3.5±0.3 |
| 680~101 |          |          |          |         | 3.2±0.3 |

**Land Pattern (Unit:mm)**



| L    | G   | H   |
|------|-----|-----|
| 20.0 | 8.0 | 5.0 |

## Regulation of part number



- ① CoilMaster's initial
- ② Series Name : Metal material Square Shield Flat wire type Power inductor
- ③ Core Size (unit:mm)
- ④ Material
- ⑤ Typical inductance value (3.3uH)
- ⑥ Inductance tolerance ( $\pm 20\%$ )

## Specifications

| Part Number           | Inductance<br>(uH) $\pm 20\%$ | DCR(mohm)<br>Max.(Typ.) | Isat(A)<br>Typ. | I <sub>rms</sub> (A)<br>Typ. | Test<br>Frequency<br>(Hz) |
|-----------------------|-------------------------------|-------------------------|-----------------|------------------------------|---------------------------|
| CMI-SSMF220120MH-3R3M | 3.3                           | 1.20(1.03)              | 50.00           | 32.00                        | 100k                      |
| CMI-SSMF220120MH-4R7M | 4.7                           | 1.75(1.52)              | 42.00           | 30.00                        | 100k                      |
| CMI-SSMF220120MH-6R8M | 6.8                           | 2.70(2.33)              | 38.00           | 26.00                        | 100k                      |
| CMI-SSMF220120MH-8R2M | 8.2                           | 3.20(2.78)              | 34.00           | 24.00                        | 100k                      |
| CMI-SSMF220120MH-100M | 10.0                          | 3.88(3.37)              | 31.00           | 21.00                        | 100k                      |
| CMI-SSMF220120MH-120M | 12.0                          | 4.80(4.17)              | 28.00           | 19.50                        | 100k                      |
| CMI-SSMF220120MH-150M | 15.0                          | 5.45(4.73)              | 26.00           | 18.00                        | 100k                      |
| CMI-SSMF220120MH-220M | 22.0                          | 8.25(7.15)              | 21.00           | 15.00                        | 100k                      |
| CMI-SSMF220120MH-330M | 33.0                          | 13.50(11.60)            | 18.00           | 11.50                        | 100k                      |
| CMI-SSMF220120MH-390M | 39.0                          | 19.80(17.20)            | 16.00           | 9.50                         | 100k                      |
| CMI-SSMF220120MH-470M | 47.0                          | 21.40(18.60)            | 15.00           | 9.00                         | 100k                      |
| CMI-SSMF220120MH-560M | 56.0                          | 23.30(20.20)            | 13.00           | 8.20                         | 100k                      |
| CMI-SSMF220120MH-680M | 68.0                          | 30.30(26.30)            | 12.50           | 7.50                         | 100k                      |
| CMI-SSMF220120MH-820M | 82.0                          | 33.70(29.30)            | 10.00           | 7.00                         | 100k                      |
| CMI-SSMF220120MH-101M | 100.0                         | 40.80(35.50)            | 9.00            | 6.10                         | 100k                      |
|                       |                               |                         |                 |                              |                           |
|                       |                               |                         |                 |                              |                           |

- Isat: When based on the inductance change rate (approximately 30% below in the initial value)
- I<sub>rms</sub>: When based on the temperature increase (Temperature increase of approximately 50°C by self heating)
- Operating Temperature Range(including self temperature) : -40°C ~ +125 °C

Note 1 : Circuit design, component placement, PCB trace size and thickness, airflow and other cooling. Provision all affect the part Temperature. Part temperature should be verified in the end application.

▪ **You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)**

- All specifications are subject to change without notice.
- Update date : 2021.09.02

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## Packaging

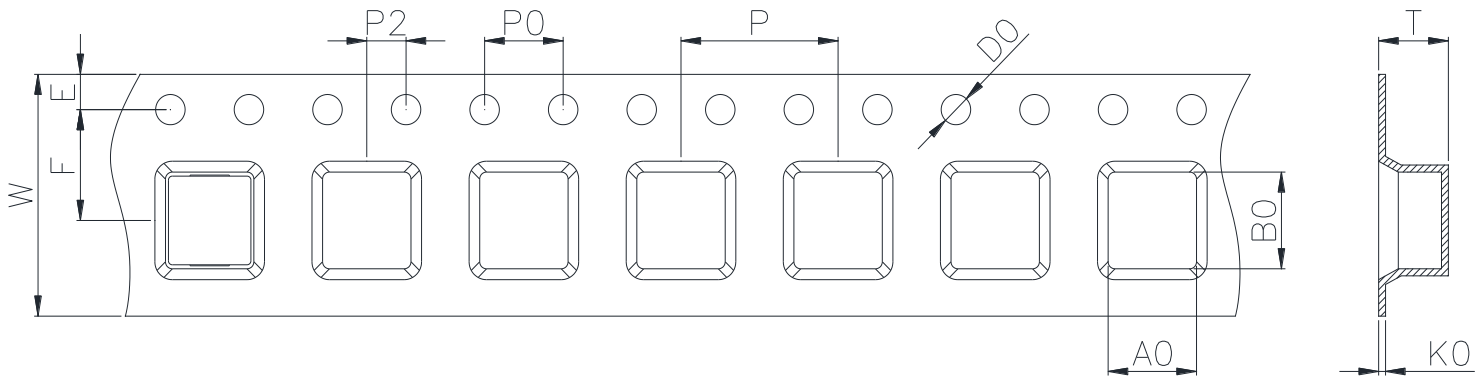
(1) Package quantity : 120 (pcs/reel)

(2) Reel Dimensions (unit:mm)



| A     | B     | C     | D     | E     | F     | G     |
|-------|-------|-------|-------|-------|-------|-------|
| 44.50 | 100.0 | 2.30  | 330.0 | 2.30  | 21.50 | 13.00 |
| +1.50 | +1.00 | +0.20 | +3.00 | +0.30 | +0.30 | +0.50 |
| -0.00 | -1.00 | -0.20 | -3.00 | -0.30 | -0.30 | -0.20 |

(3) Tape Dimensions



| W     | A0    | B0    | K0    | E     | F     | P     | P0    | P2    | D0/D1 | T     |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 44.00 | 23.50 | 23.50 | 13.10 | 1.75  | 20.20 | 32.00 | 4.00  | 2.00  | 1.50  | 0.50  |
| +0.30 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.10 | +0.05 | +0.05 |
| -0.30 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.10 | -0.05 | -0.05 |

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