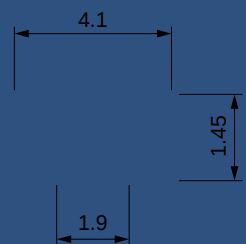
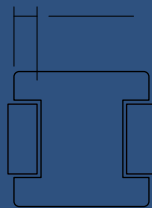
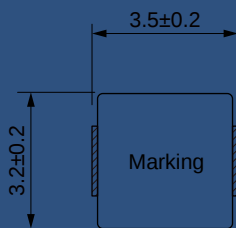


## APPLICATION

- Note PC power system , incl. IMVP-6
- 5/ 5/ 0000000000



| Part No       | Inductance<br>@ 100KHz/1V<br>(µH) | Tolerance | Temperature<br>Rise Current<br>Typ.<br>(A) | Satura on<br>Current<br>Typ.<br>(A) | DC<br>Resistance<br>Typ.<br>(mΩ) | DC<br>Resistance<br>Max.<br>(mΩ) |
|---------------|-----------------------------------|-----------|--------------------------------------------|-------------------------------------|----------------------------------|----------------------------------|
| MDCA3012-R22M | 0.22                              | ±20%      |                                            | 10.0                                | 14.0                             | 17.0                             |
| MDCA3012-R33M | 0.33                              | ±20%      | 6.2                                        | 9.2                                 | 16.0                             | 20.0                             |
| MDCA3012-R36M | 0.36                              | ±20%      | 6.0                                        |                                     |                                  | 23.0                             |
| MDCA3012-R47M | 0.47                              | ±20%      |                                            | 7.2                                 |                                  | 30.0                             |
| a5/! w a      |                                   | ±20%      |                                            | 6.6                                 | 31.0                             | 36.0                             |
| MDCA3012-R68M | 0.68                              | ±20%      | 4.0                                        | 6.1                                 | 34.0                             | 40.0                             |
| MDCA3012-R82M | 0.82                              | ±20%      |                                            |                                     | 41.0                             | 48.0                             |
| MDCA3012-1R0M | 1.00                              | ±20%      | 3.3                                        |                                     |                                  | 60.0                             |
| a5/! w a      |                                   | ±20%      | 3.0                                        | 4.0                                 | 71.0                             |                                  |
| MDCA3012-2R2M | 2.20                              | ±20%      | 2.7                                        | 3.4                                 | 98.0                             |                                  |
| MDCA3012-3R3M | 3.30                              | ±20%      | 2.0                                        | 3.1                                 | 191                              | 210                              |
| MDCA3012-4R7M | 4.70                              | ±20%      | 1.6                                        | 2.8                                 | 266                              | 293                              |
| a5/! w a      |                                   | ±20%      |                                            | 2.2                                 | 310                              | 360                              |
| MDCA3012-6R8M | 6.80                              | ±20%      | 1.4                                        | 2.0                                 | 360                              | 400                              |

| Part No       | Inductance<br>@ 100KHz/1V<br>( $\mu$ H) | Tolerance  | Temperature<br>Rise Current<br>Typ.<br>(A) | Satura on<br>Current<br>Typ.<br>(A) | DC<br>Resistance<br>Typ.<br>(m $\Omega$ ) | DC<br>Resistance<br>Max.<br>(m $\Omega$ ) |
|---------------|-----------------------------------------|------------|--------------------------------------------|-------------------------------------|-------------------------------------------|-------------------------------------------|
| MDCA3012-8R2M | 8.20                                    | $\pm 20\%$ | 1.2                                        | 1.7                                 | 420                                       | 463                                       |
| MDCA3012-100M | 10.0                                    | $\pm 20\%$ | 1.0                                        | 1.4                                 | 498                                       |                                           |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is  $\Delta T = 40^\circ\text{C}$

## Typical Electrical Characteristics:

