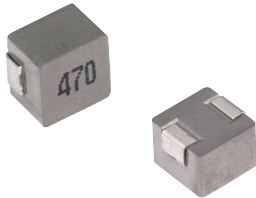


**MDE Series**  
**Molding Power Inductors**  
**Size 1770**



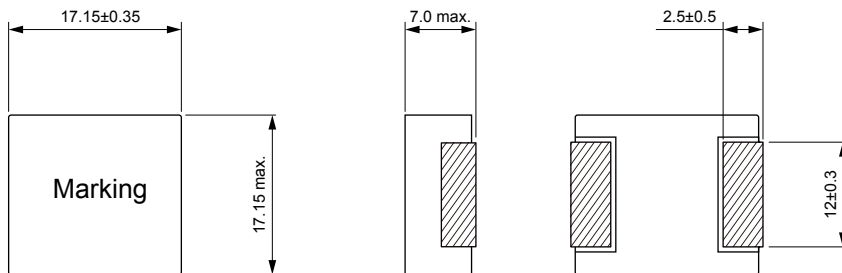
**FEATURES**

- ROHS, Halogen Free and REACH compliance
- High rated current
- 125 °C maximum total temperature operation
- Low core loss
- Ultra low buzz noise due to molding construction
- 17.5×17.15×7.0mm maximum surface mount package
- Operating temperature range - 55 °C to + 125 °C
- Quantity: 200pcs

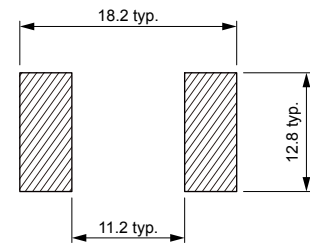
**APPLICATION**

- Laptops and PCs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

| Part No      | Inductance @ 100kHz/1V (μH) | Tolerance | DC Resistance Max. (mΩ) | Saturation Current Typ. (A) | Temperature Rise Current Typ. (A) |
|--------------|-----------------------------|-----------|-------------------------|-----------------------------|-----------------------------------|
| MDE1770-2R2M | 2.20                        | ±20%      | 2.50                    | 34.0                        | 29.0                              |
| MDE1770-3R3M | 3.30                        | ±20%      | 3.95                    | 30.0                        | 24.0                              |
| MDE1770-4R7M | 4.70                        | ±20%      | 4.75                    | 24.0                        | 21.0                              |
| MDE1770-6R8M | 6.80                        | ±20%      | 7.50                    | 22.0                        | 17.0                              |
| MDE1770-8R2M | 8.20                        | ±20%      | 8.70                    | 20.0                        | 13.0                              |
| MDE1770-100M | 10.0                        | ±20%      | 9.90                    | 19.0                        | 12.0                              |
| MDE1770-150M | 15.0                        | ±20%      | 17.0                    | 14.5                        | 11.0                              |
| MDE1770-220M | 22.0                        | ±20%      | 23.0                    | 11.5                        | 8.50                              |
| MDE1770-330M | 33.0                        | ±20%      | 37.0                    | 10.0                        | 8.00                              |
| MDE1770-470M | 47.0                        | ±20%      | 47.0                    | 7.50                        | 6.00                              |
| MDE1770-680M | 68.0                        | ±20%      | 85.0                    | 6.50                        | 5.20                              |
| MDE1770-101M | 100                         | ±20%      | 130                     | 5.00                        | 3.70                              |

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40°C

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[MHQ1005P5N1S](#) [MHQ1005P8N2J](#) [PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#)  
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