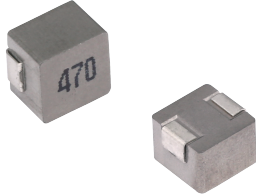


**MDE Series**  
**Molding Power Inductors**  
**Size 0420**



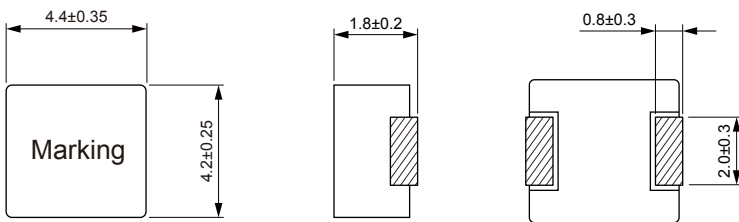
**FEATURES**

- High rated current
- Frequency up to 3 MHz
- 125 °C maximum total temperature operation
- Low core loss
- Ultra low buzz noise due to molding construction
- Halogen Free & ROHS compliant
- Quantity: 3000pcs

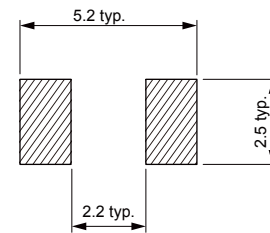
**APPLICATION**

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

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

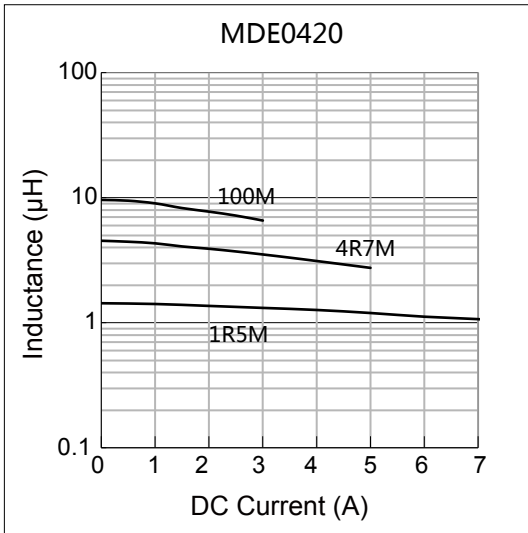
Part No	Inductance @ 100kHz/1V (μH)	Tolerance	DC Resistance Max. (mΩ)	Saturation Current Typ. (A)	Temperature Rise Current Typ. (A)
MDE0420-R10M	0.10	±20%	4.00	22.0	13.0
MDE0420-R22M	0.22	±20%	6.60	12.5	9.50
MDE0420-R33M	0.33	±20%	11.0	12.0	10.0
MDE0420-R47M	0.47	±20%	14.0	9.50	7.50
MDE0420-R56M	0.56	±20%	16.0	9.00	7.00
MDE0420-R68M	0.68	±20%	18.0	8.00	7.00
MDE0420-1R0M	1.00	±20%	27.0	7.00	6.00
MDE0420-1R2M	1.20	±20%	27.0	6.50	6.00
MDE0420-1R5M	1.50	±20%	46.0	5.50	5.00
MDE0420-2R2M	2.20	±20%	58.0	5.00	4.50
MDE0420-3R3M	3.30	±20%	87.0	3.50	3.30
MDE0420-4R7M	4.70	±20%	105	3.00	2.80
MDE0420-6R8M	6.80	±20%	175	2.50	2.40
MDE0420-100M	10.0	±20%	282	2.00	1.60
MDE0420-220M	22.0	±20%	363	1.40	1.20

Saturation Current will cause L to drop approximately 30%

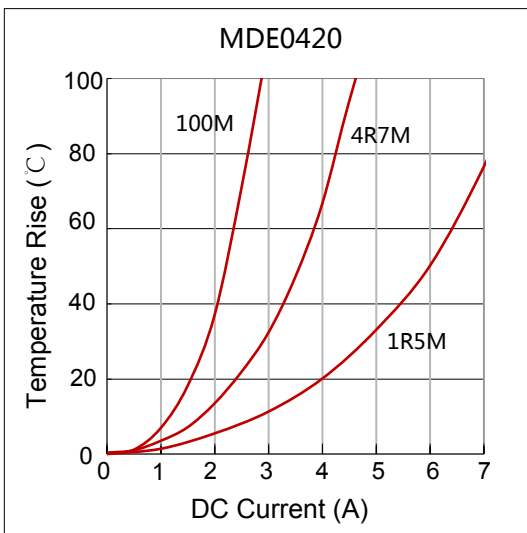
Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40°C

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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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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