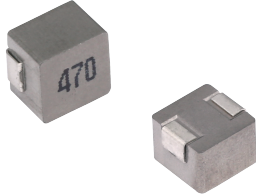


MDE Series
Molding Power Inductors
Size 0420



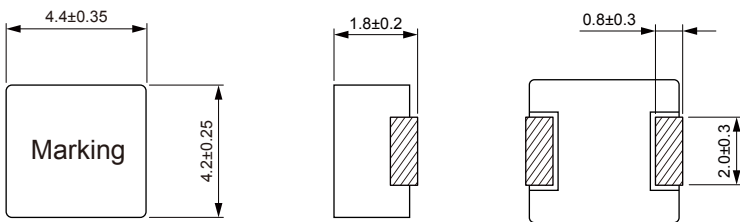
FEATURES

- 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

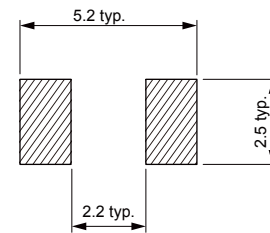
APPLICATION

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

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

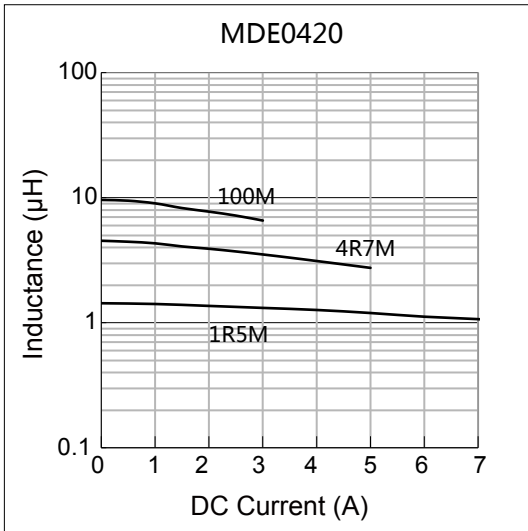
Part No	Inductance @ 100kHz/1V (μH)	Tolerance	DC Resistance Max. (mΩ)	Saturation Current Typ. (A)	Temperature Rise Current Typ. (A)
MDE0420-R10M	0.10	±20%	4.00	22.0	13.0
MDE0420-R22M	0.22	±20%	6.60	12.5	9.50
MDE0420-R33M	0.33	±20%	11.0	12.0	10.0
MDE0420-R47M	0.47	±20%	14.0	9.50	7.50
MDE0420-R56M	0.56	±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%

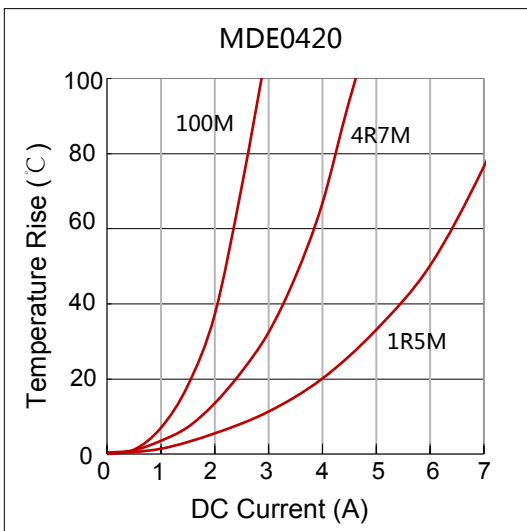
Temperature Rise Current: The actual value of DC current when the temperature rise is ΔT=40°C

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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[PE-53601NL](#) [PE-53602NL](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2-R47-R](#) [HC8-1R2-R](#)
[HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-4R7M](#) [RCP1317NP-391L](#) [DH2280-4R7M](#) [DS1608C-106](#) [B10TJ](#) [B82498B3101J000](#) [ELJ-](#)
[RE27NJF2](#) [1812CS-153XJ](#) [1812CS-183XJ](#) [1812CS-223XJ](#) [1812LS-104XJ](#) [1812LS-105XJ](#) [1812LS-124XJ](#) [1812LS-154XJ](#) [1812LS-223XJ](#)
[1812LS-224XJ](#) [1812LS-563XJ](#) [1812LS-683XJ](#) [1812LS-824XJ](#) [NIN-FB101JTR110F](#) [NIN-FB471JTR62F](#) [NIN-FC1R5JTR220F](#) [NIN-](#)
[HCR15JTRF](#) [NIN-HCR33JTRF](#) [NIN-HDR22JTRF](#) [NIN-HDR82JTRF](#) [NIN-HK2N7STRF](#) [NIN-PA150KTR370F](#) [NIN-PB100KTR550F](#)