

MDE Series

Molding Power Inductors

Size 0650



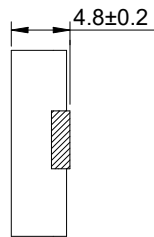
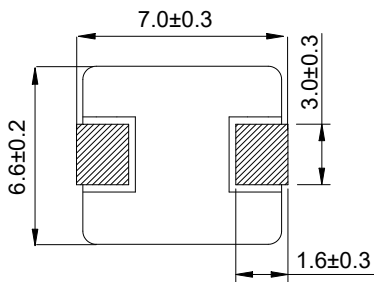
FEATUERS

- 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: 1000pcs

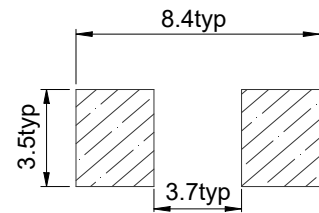
APPLICATION

- 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.	L@100KHz /1V (μH)	Tolerance	R _{DC} Max. (mΩ)	I _{sat} Typ. (A)	I _R Typ. (A)
MDE0650-R47M	0.47	±20%	3.9	21.0	20
MDE0650-R68M	0.68	±20%	4.5	18.0	16.5
MDE0650-1R0M	1.0	±20%	6.6	16.0	12
MDE0650-1R5M	1.5	±20%	10	13.0	9.5
MDE0650-2R2M	2.2	±20%	12.5	11.0	9
MDE0650-3R3M	3.3	±20%	22.0	10.0	8.5
MDE0650-4R7M	4.7	±20%	29	8	6
MDE0650-6R8M	6.8	±20%	41	6.3	5.8
MDE0650-8R2M	8.2	±20%	48	5.5	5.5
MDE0650-100M	10	±20%	60	5.3	4.5
MDE0650-150M	15	±20%	90	4.0	3.1

Part No.	$L@100\text{KHz}/1\text{V}$ (μH)	Tolerance	R_{DC} Max. ($\text{m}\Omega$)	I_{sat} Typ. (A)	I_{R} Typ. (A)
MDE0650-220M	22	$\pm 20\%$	140	3.5	2.6
MDE0650-330M	33	$\pm 20\%$	190	3.0	2.3
MDE0650-470M	47	$\pm 20\%$	230	2.6	2.0

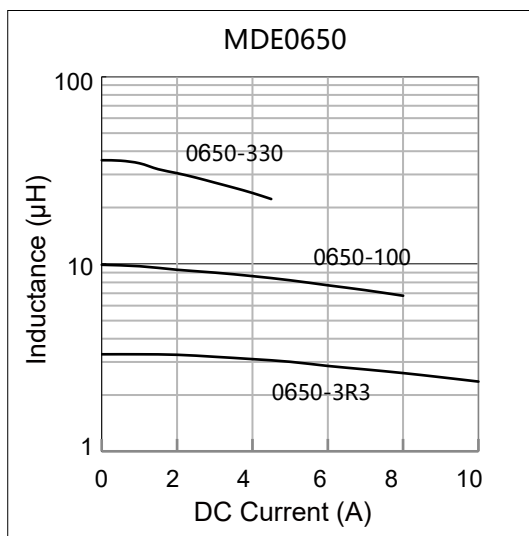
Operating temperature range - 55 °C to + 125 °C

I_{R} will cause the coil temperature approximate $\Delta T 40$ °C

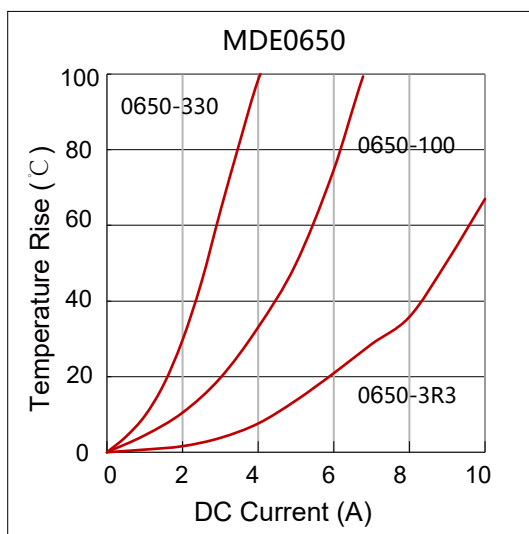
I_{sat} will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Fixed Inductors](#) category:

Click to view products by [KOHER](#) manufacturer:

Other Similar products are found below :

[CR32NP-151KC](#) [CR32NP-180KC](#) [CR32NP-181KC](#) [CR32NP-1R5MC](#) [CR32NP-390KC](#) [CR32NP-3R9MC](#) [CR32NP-680KC](#) [CR32NP-820KC](#) [CR32NP-8R2MC](#) [CR43NP-390KC](#) [CR43NP-560KC](#) [CR43NP-680KC](#) [CR54NP-181KC](#) [CR54NP-470LC](#) [CR54NP-820KC](#) [CR54NP-8R5MC](#) [70F224AI](#) [MGDQ4-00004-P](#) [MHL1ECTTP18NJ](#) [MHQ1005P10NJ](#) [MHQ1005P1N0S](#) [MHQ1005P2N4S](#) [MHQ1005P3N6S](#) [MHQ1005P5N1S](#) [MHQ1005P8N2J](#) [PE-51506NL](#) [PE-53601NL](#) [PE-53602NL](#) [PE-53630NL](#) [PE-53824SNLT](#) [PE-92100NL](#) [PG0434.801NLT](#) [PG0936.113NLT](#) [9220-20](#) [9310-16](#) [PM06-2N7](#) [PM06-39NJ](#) [A01TK](#) [1206CS-471XJ](#) [HC2LP-R47-R](#) [HC2-R47-R](#) [HC3-2R2-R](#) [HCF1305-3R3-R](#) [1206CS-151XG](#) [RCH664NP-140L](#) [RCH664NP-4R7M](#) [RCH8011NP-221L](#) [RCP1317NP-332L](#) [RCP1317NP-391L](#) [RCR1010NP-470M](#)