

**MDE Series**  
**Molding Power Inductors**  
**Size 1040**



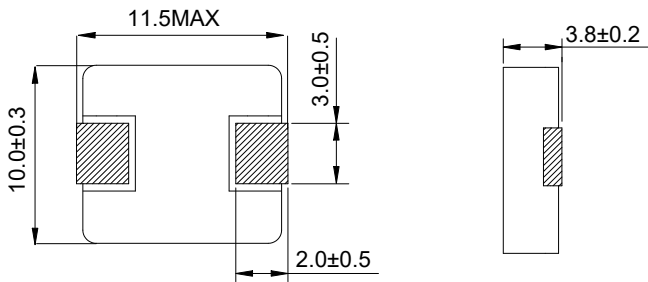
**FEATUERS**

- 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: 500pcs

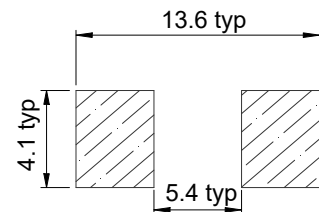
**APPLICATION**

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

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

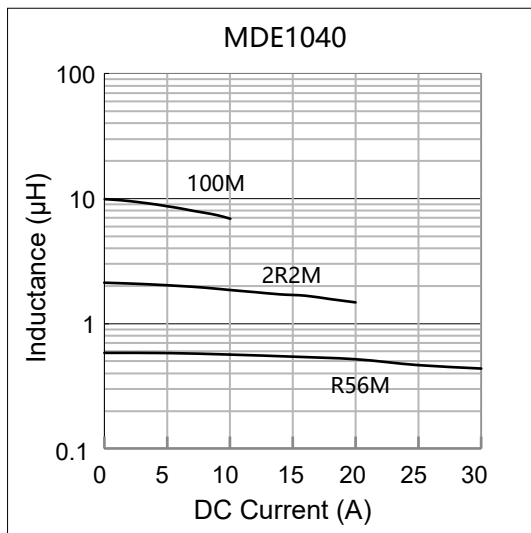
Part No.	L@100KHz /1V (µH)	Tolerance	R <sub>DC</sub> Max. (mΩ)	I <sub>sat</sub> Typ. (A)	I <sub>R</sub> Typ. (A)
MDE1040-R15M	0.15	±20%	0.65	75	45
MDE1040-R22M	0.22	±20%	1.0	60	35
MDE1040-R30M	0.3	±20%	1.1	45	35
MDE1040-R36M	0.36	±20%	1.2	45	30
MDE1040-R47M	0.47	±20%	1.7	40	30
MDE1040-R56M	0.56	±20%	1.8	33	25
MDE1040-R68M	0.68	±20%	2.4	30	23
MDE1040-R80M	0.8	±20%	2.7	29	23
MDE1040-1R0M	1.0	±20%	3.3	28	19
MDE1040-1R5M	1.5	±20%	4.2	24	16
MDE1040-2R2M	2.2	±20%	7.0	16.5	12

Part No.	L@100KHz /1V (μH)	Tolerance	R <sub>Dc</sub> Max. (mΩ)	I <sub>sat</sub> Typ. (A)	I <sub>R</sub> Typ. (A)
MDE1040-3R3M	3.3	±20%	11.8	16	11
MDE1040-4R7M	4.7	±20%	20	13	9
MDE1040-6R8M	6.8	±20%	25	12	8.5
MDE1040-8R2M	8.2	±20%	27	9	8
MDE1040-100M	10	±20%	30	8.5	7.8
MDE1040-150M	15	±20%	45	7	6.5
MDE1040-220M	22	±20%	66	5.5	5
MDE1040-330M	33	±20%	92	4.8	4.4
MDE1040-470M	47	±20%	145	3.5	3.3
MDE1040-680M	68	±20%	195	3	2.5

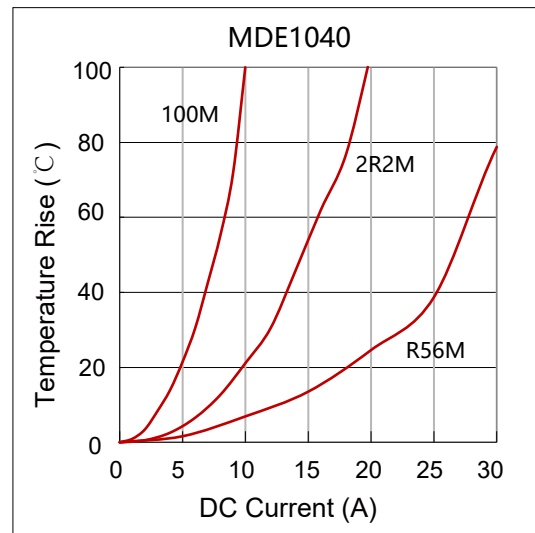
Operating temperature range - 55 °C to + 125 °C  
 I<sub>R</sub> will cause the coil temperature approximate ΔT40 °C  
 I<sub>sat</sub> will cause to drop approximately 30 %

Typical Electrical Characteristics:

Inductance vs DC Current Characteristics:



Temperature Rise vs DC Current Characteristics:



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