



SEP0603K SERIES

High Current SMD Power Inductors



RoHS Compliant

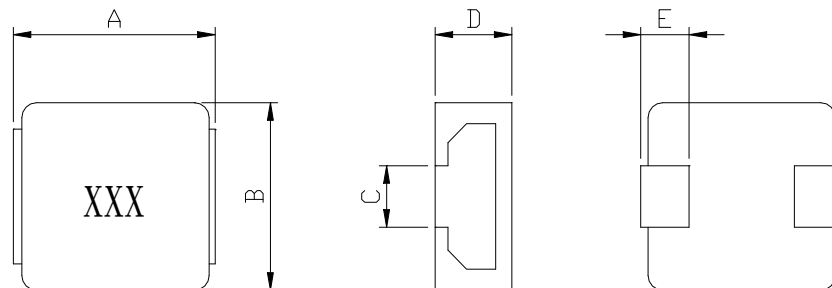
PART NUMBERING SYSTEM

<u>SEP</u>	<u>0603K</u>	—	<u>R47M</u>	—	<u>LF</u>
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

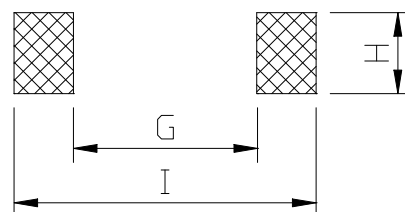
- Low profile (3.00mm max. height) and 7.3 mm max. square.
- Magnetically shielded and low DC resistance .
- Suitable for large current .
- Ideal for DC – DC converter inductor application in hand help personal Computer ,etc .
- Frequency range up to 5MHZ .
- Large current handling capability .

SHAPES AND DIMENSIONS :



A=7.3 Max. B=6.67 Max. C=1.27±0.3 D=3.0 Max. E=3.0±0.3 UNIT : mm

RECOMMENDED PATTERNS



H=3.5 G= 3.8 I = 7.4 UNIT : mm



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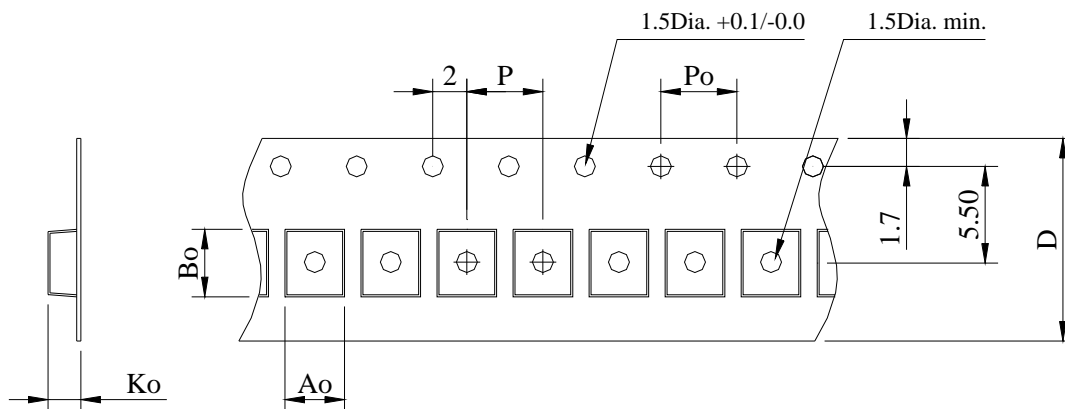
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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) (Typ.)	Irms (A) (Typ.)	DCR (m Ω) (Typ.)	TEST FREQ. (f)
SEP0603K-R47M-LF	0.47 \pm 20%	19.0	15.0	3.40	100KHz/0.1V
SEP0603K-R68M-LF	0.68 \pm 20%	22.0	13.0	4.70	100KHz/0.1V
SEP0603K-R82M-LF	0.82 \pm 20%	18.0	10.5	6.60	100KHz/0.1V
SEP0603K-1R0M-LF	1.0 \pm 20%	17.5	9.5	7.10	100KHz/0.1V
SEP0603K-1R5M-LF	1.5 \pm 20%	16.0	9.0	10.7	100KHz/0.1V
SEP0603K-2R2M-LF	2.2 \pm 20%	14.0	8.0	13.9	100KHz/0.1V
SEP0603K-3R3M-LF	3.3 \pm 20%	11.0	6.0	28.0	100KHz/0.1V
SEP0603K-4R7M-LF	4.7 \pm 20%	7.5	5.0	38.8	100KHz/0.1V
SEP0603K-6R8M-LF	6.8 \pm 20%	6.5	4.5	48.9	100KHz/0.1V
SEP0603K-8R2M-LF	8.2 \pm 20%	6.0	4.0	55.9	100KHz/0.1V
SEP0603K-100M-LF	10 \pm 20%	5.0	3.5	64.0	100KHz/0.1V

- Isat : DC current at which the inductance drops 20% (typ) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Operating temperature range -55°C to +120°C , Electrical specifications at 25°C.

PACKAGING SPECIFICATION



STAYLE	Q' TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D \pm 0.3
13"	1,000	7.2	7.0	3.4	12	4.0	16



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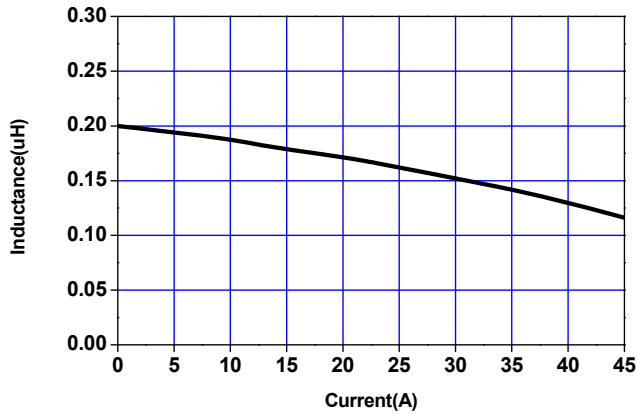
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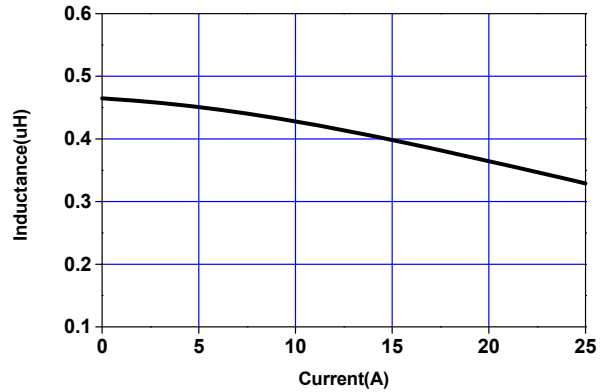
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Inductance vs DC Current (I_{sat})

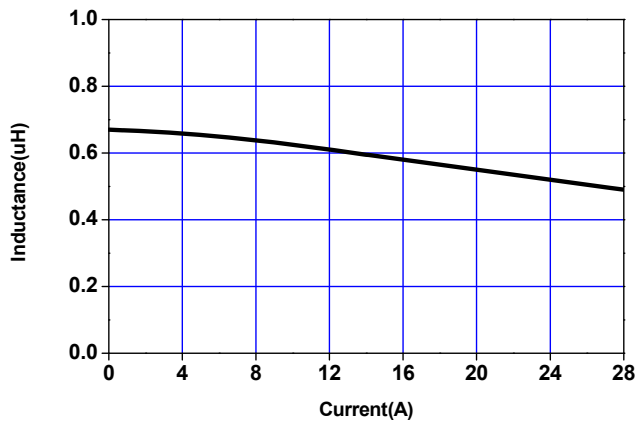
SEP0603K-R20M-LF



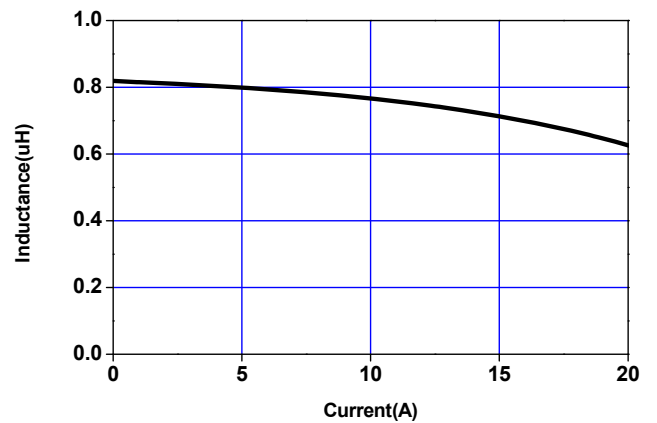
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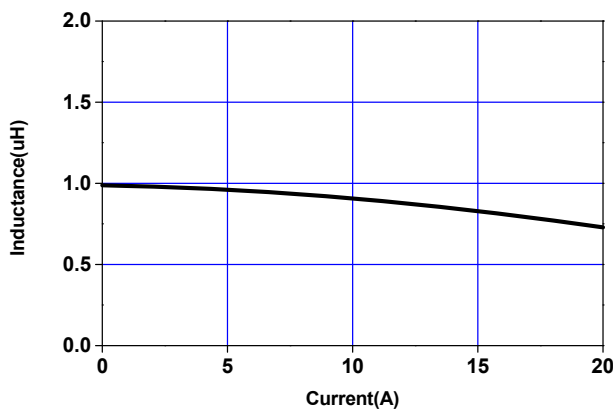
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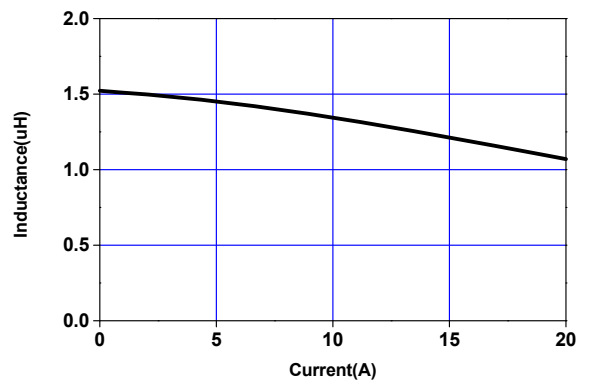
SEP0603K-R82M-LF



SEP0603K-1R0M-LF



SEP0603K-1R5M-LF





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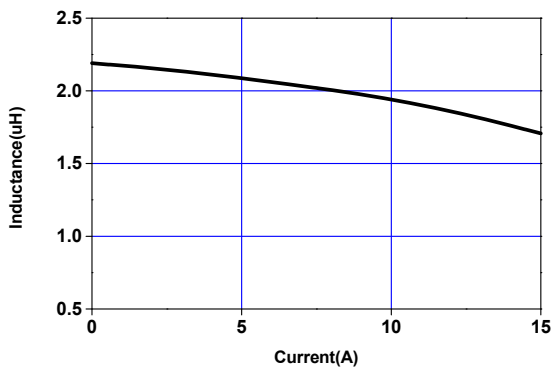
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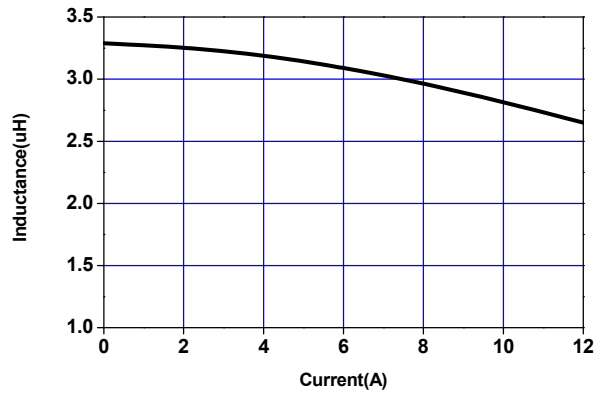


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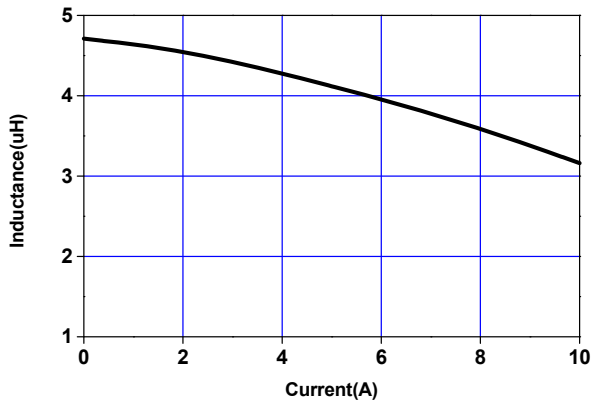
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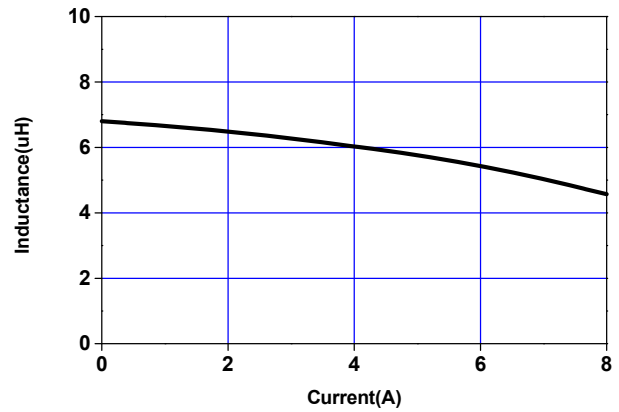
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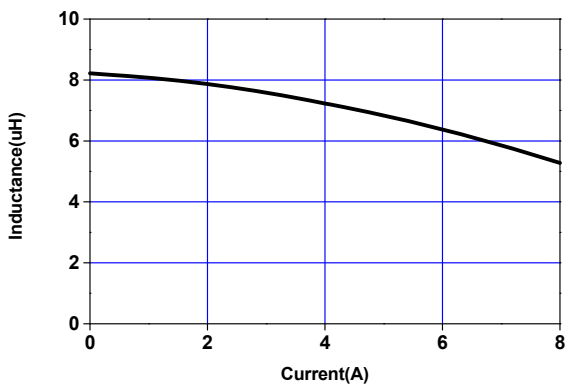
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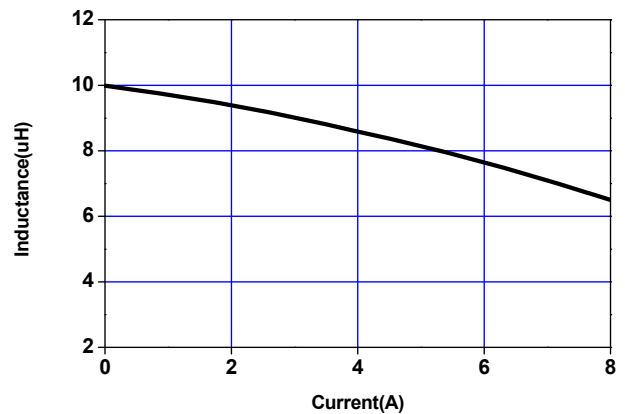
SEP0603K-6R8M-LF



SEP0603K-8R2M-LF



SEP0603K-100M-LF





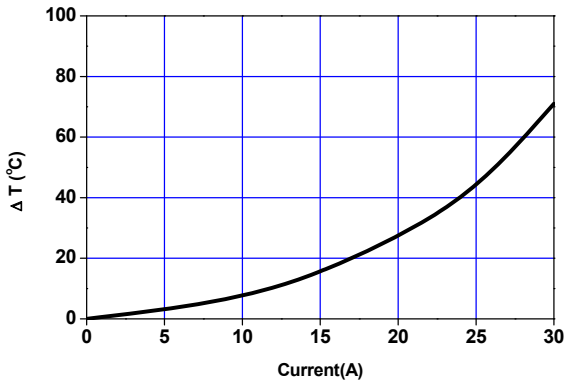
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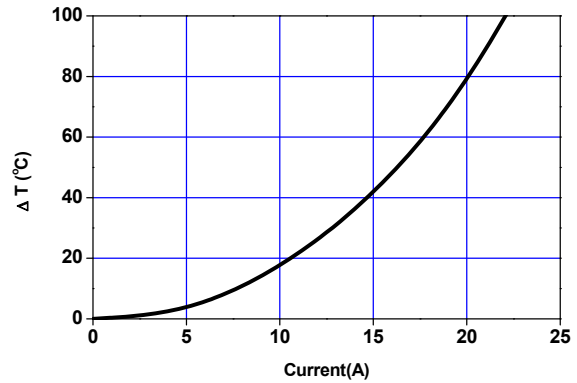
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Temperature rise vs Current (I_{rms})

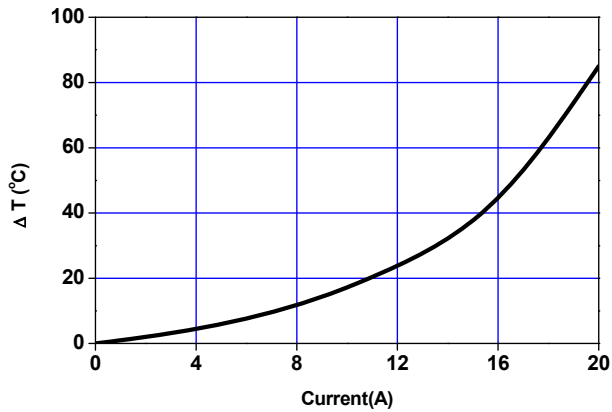
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SEP0603K-R47M-LF



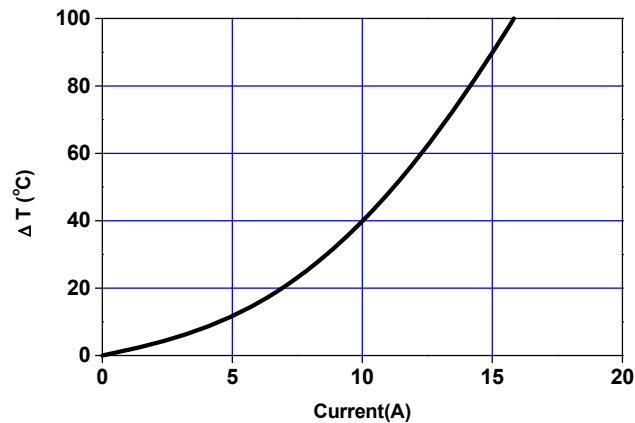
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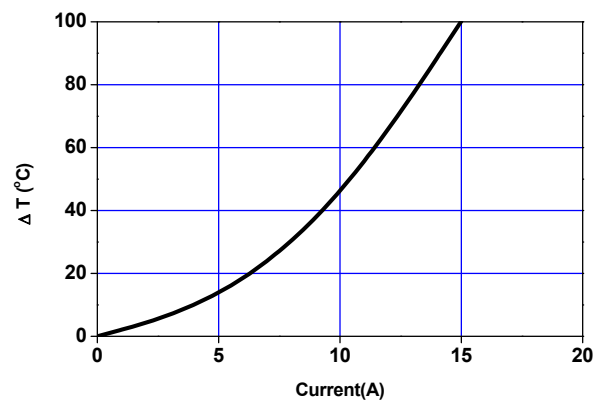
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SEP0603K-1R0M-LF



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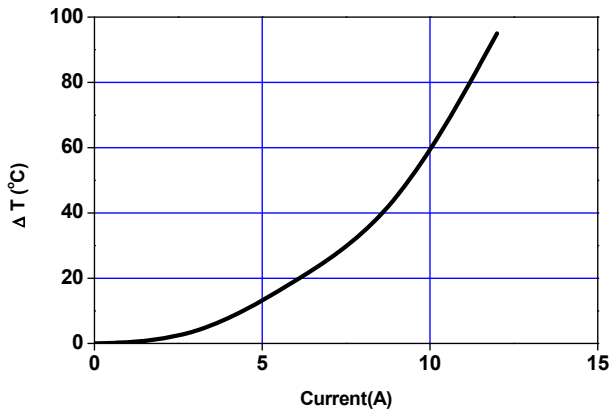
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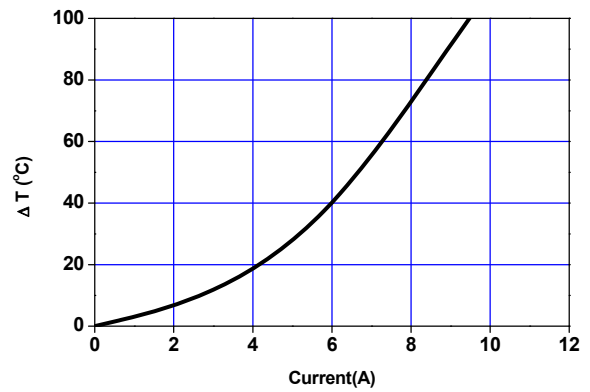


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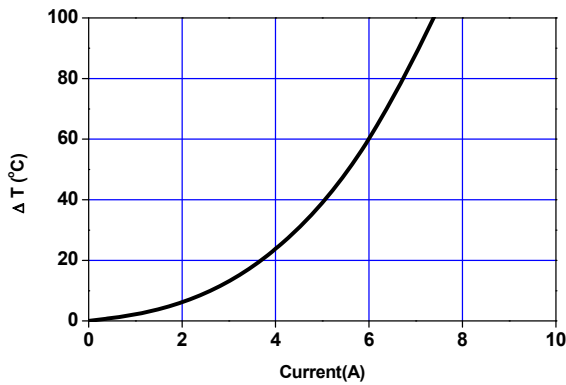
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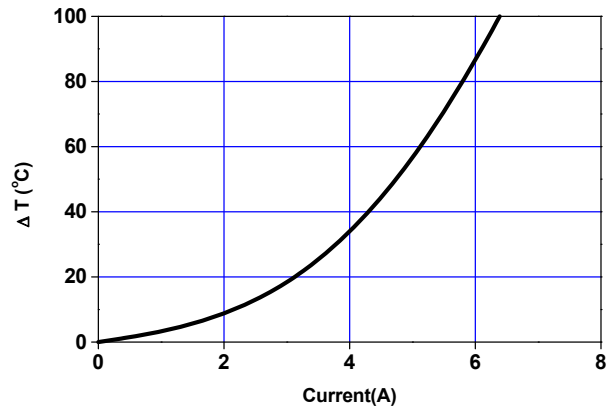
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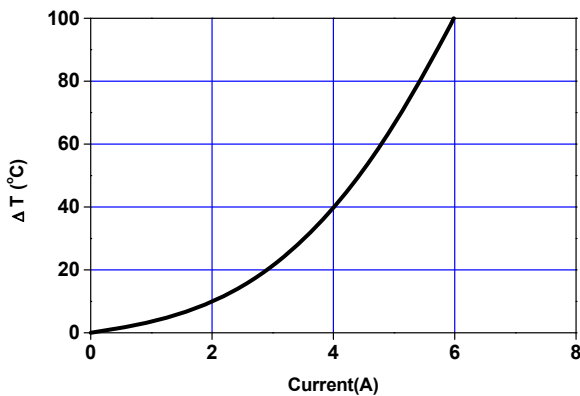
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