BADGER GLOBAL COMPONENTS
1510 Sylvania Ave #211 Sturtevant, WI 53177
262-884-9087 Fax 262-884-9082

SEP0603K SERIES

High Current SMD Power Inductors

RoHS Compliant

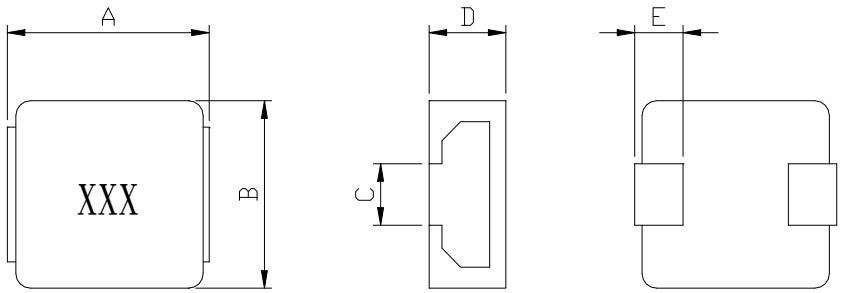
PART NUMBERING SYSTEM

SEP	0603K	—	R47M	—	LF
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE

FEATURES :

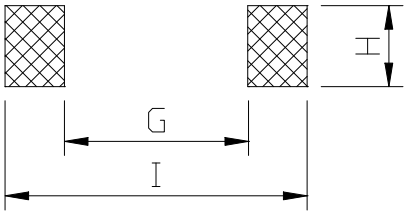
- **Low profile (3.00mm max. height) and 7.3 mm max. square.**
- **Magnetically shielded and low DC resistance .**
- **Suitable for large current .**
- **Ideal for DC – DC converter inductor application in hand help personal Computer ,etc .**
- **Frequency range up to 5MHZ .**
- **Large current handling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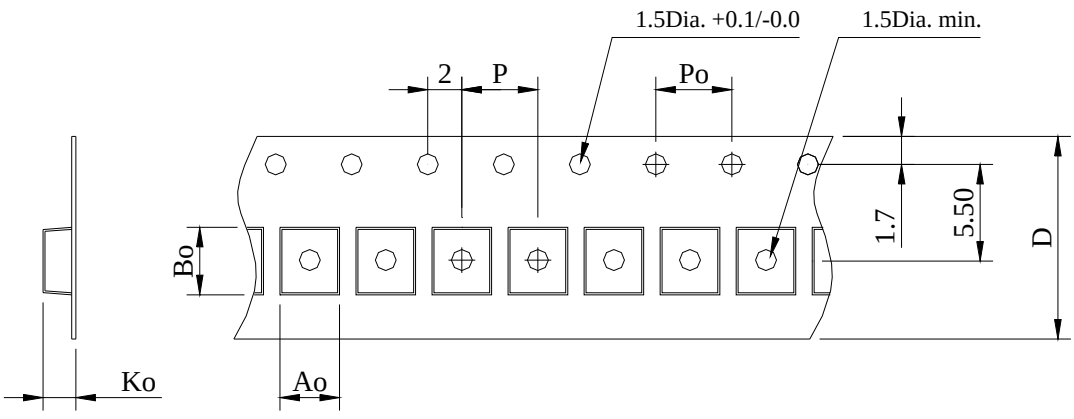
SPECIFICATION TABLE

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

- I sat : 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℃ to +125℃ , Electrical specifications at 25℃.

PACKAGING SPECIFICATION



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

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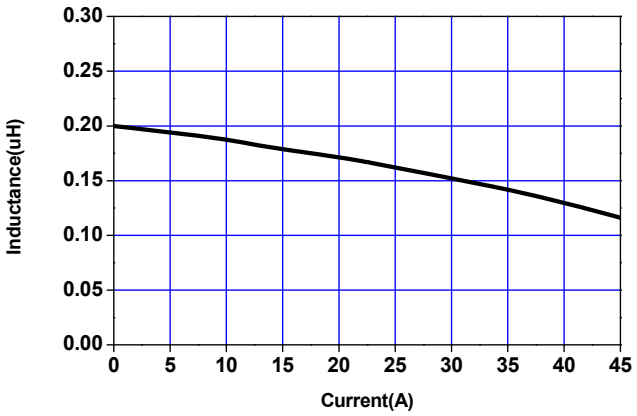
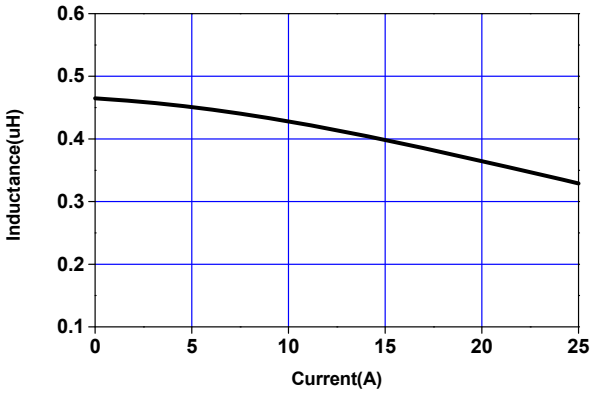
Inductance vs DC Current (Isat)

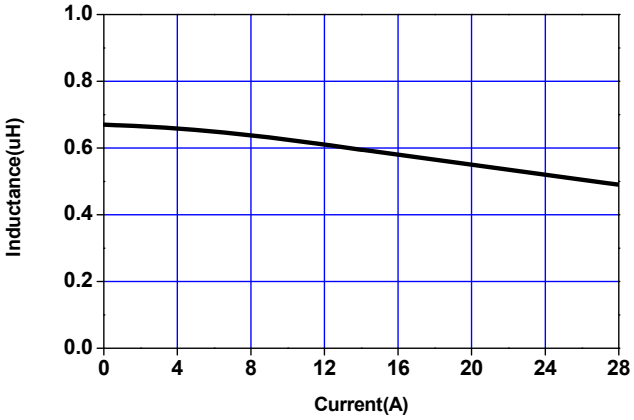
SEP0603K-R20M-LF



SEP0603K-R47M-LF



SEP0603K-R68M-LF



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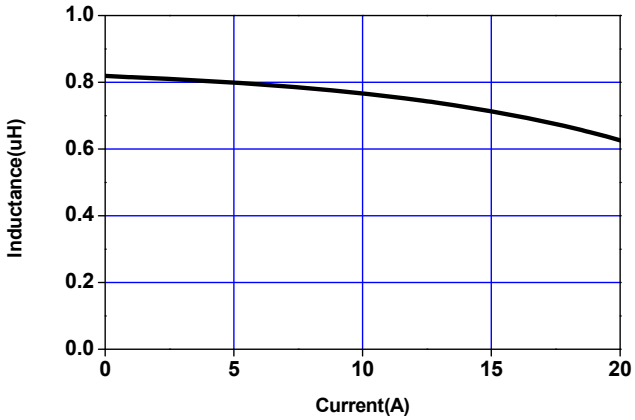

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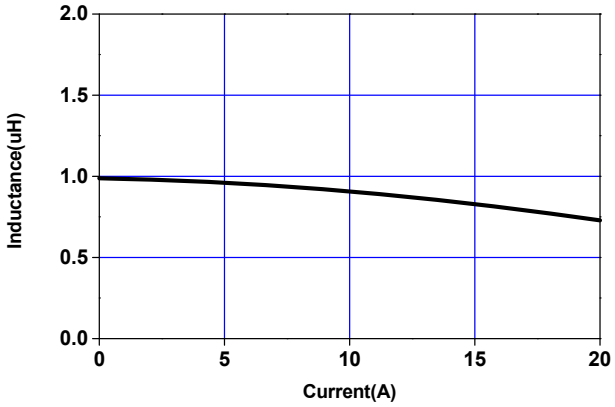

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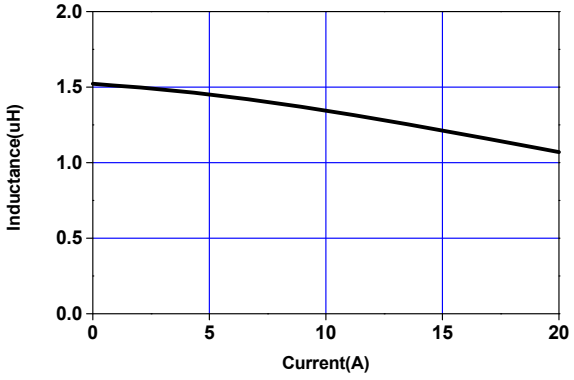

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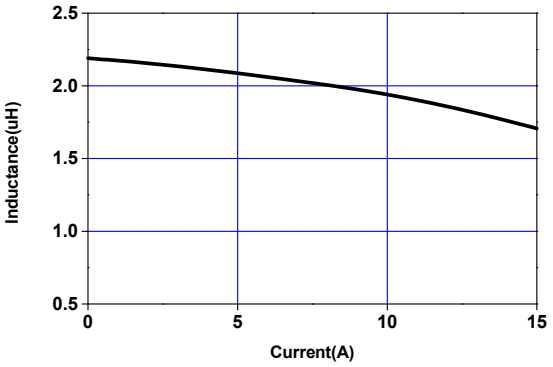
Inductance vs DC Current (Isat)

SEP0603K-2R2M-LF



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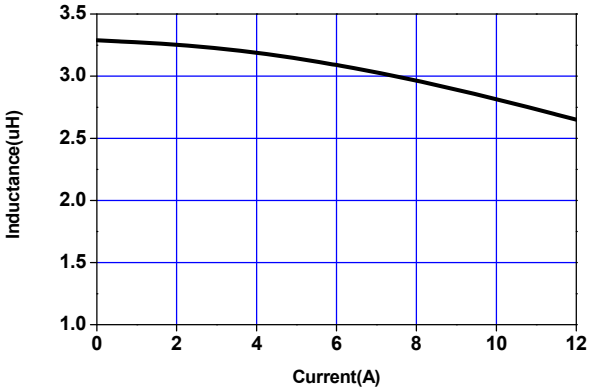

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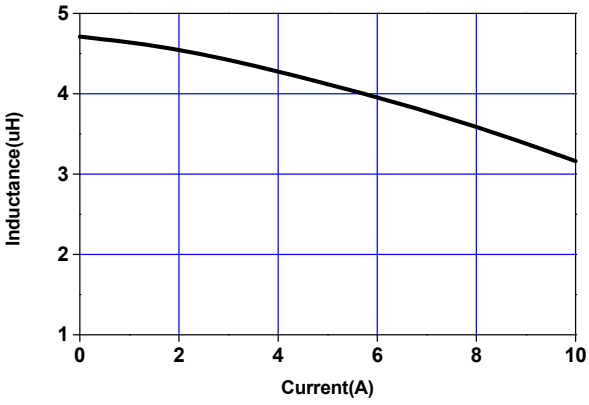
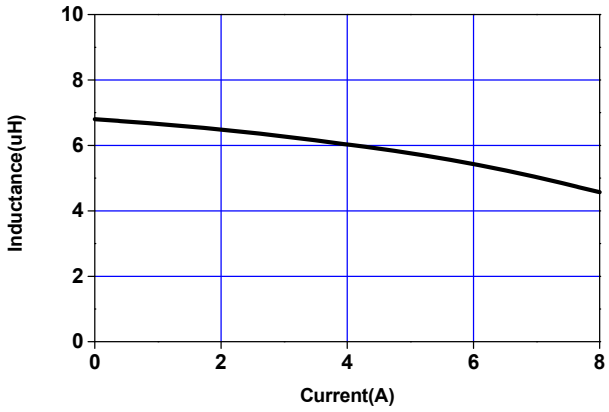


SEP0603K-6R8M-LF



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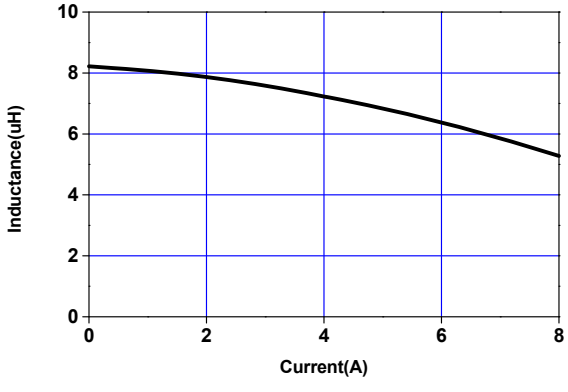

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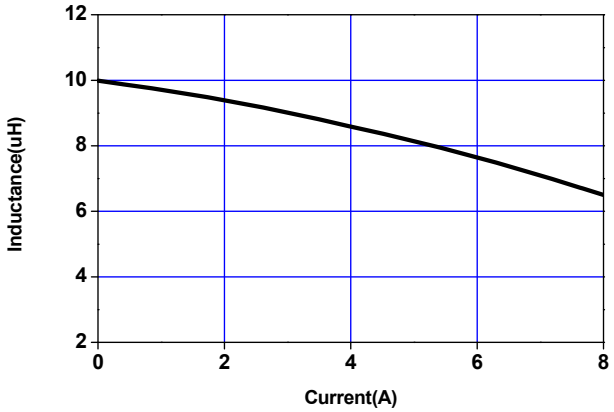

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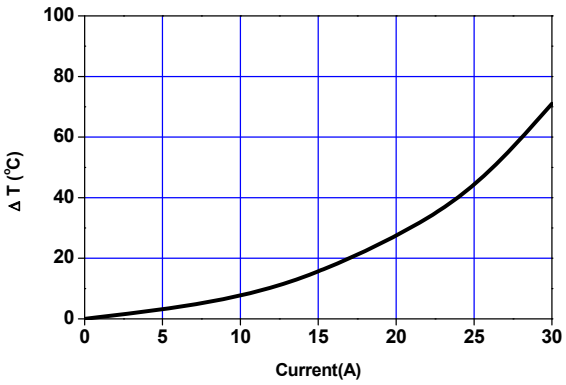
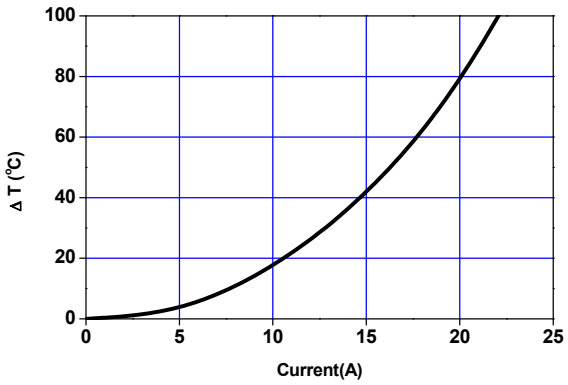
Temperature rise vs Current (Irms)

SEP0603K-R20M-LF



SEP0603K-R47M-LF



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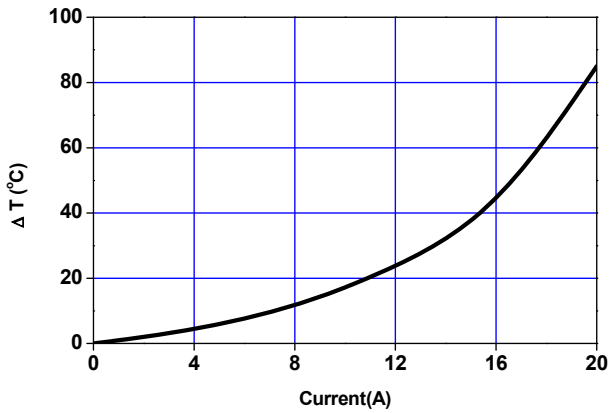
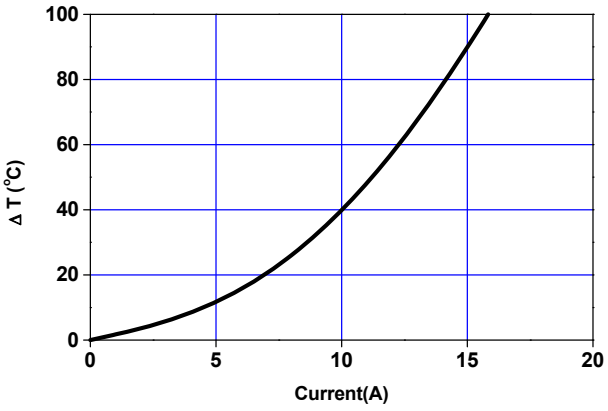


SEP0603K-R82M-LF



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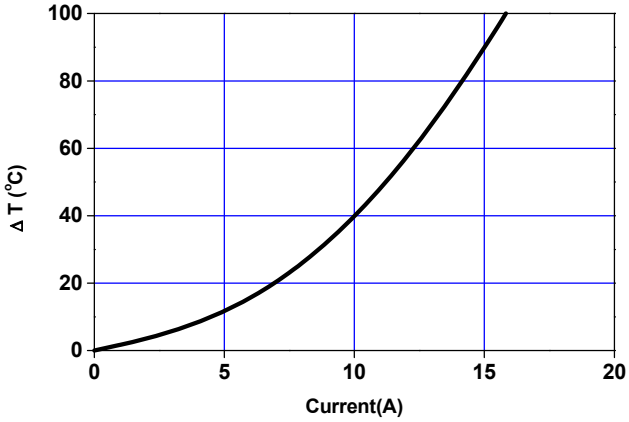

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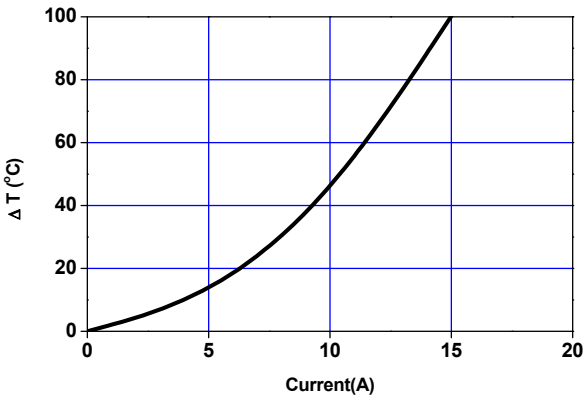

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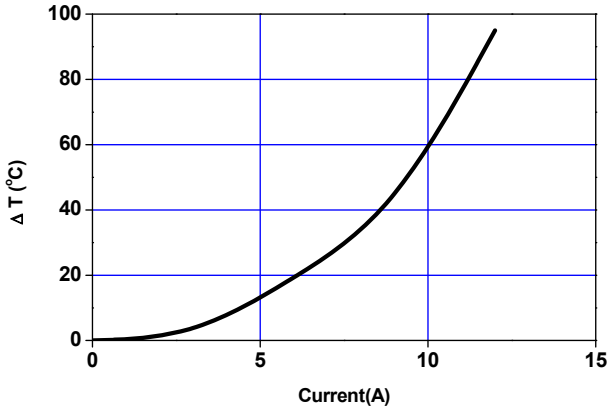
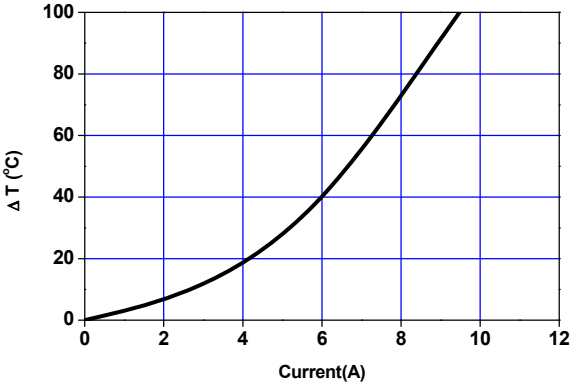
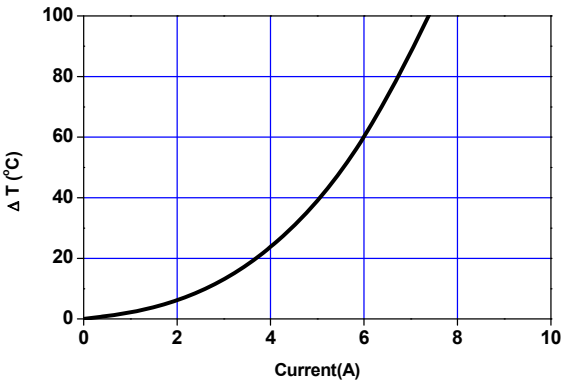


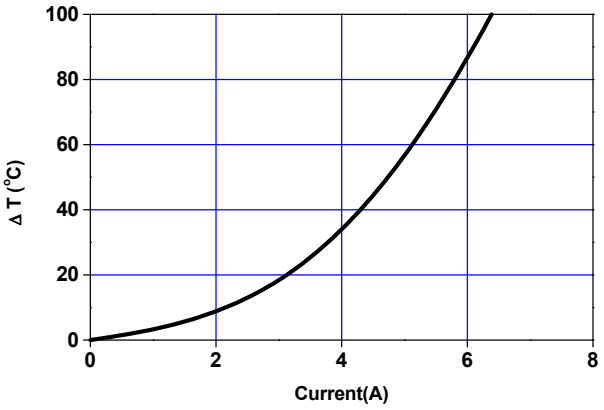
SEP0603K-3R3M-LF



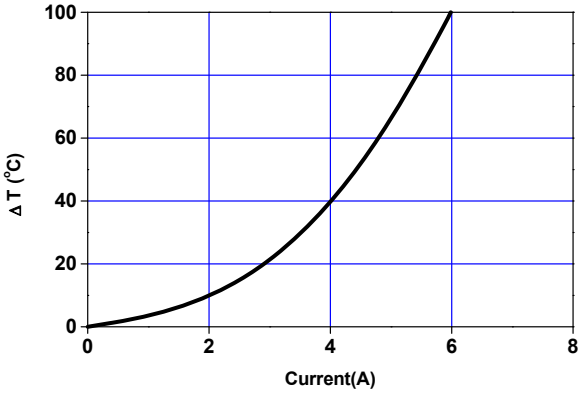
SEP0603K-4R7M-LF



SEP0603K-6R8M-LF



SEP0603K-8R2M-LF



SEP0603K-100M-LF