



SPI130-50-SERIES-A



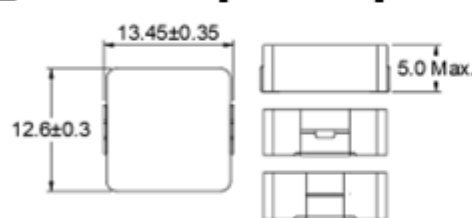
Applications

- Noise suppression for motors : windshield wipers / power seats / power mirrors / heating and ventilation blower / HID lighting
- Engine and transmission control units
- DC/DC converters for entertainment/navigation systems
- LED drivers
- Battery power systems

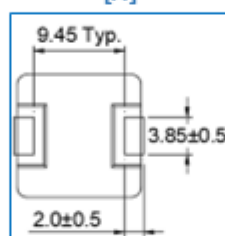
Environmental data

- Operating temperature range : -55°C ~ +155°C(component)
- Storage conditions (packaged) : -25°C ~ +40°C, ≤75% RH
- Complies with AEC-Q200 standard

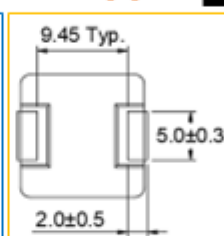
Dimensions [Unit : mm]



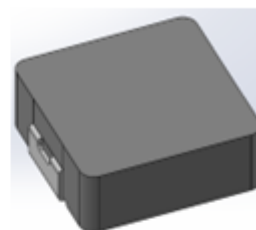
[A]



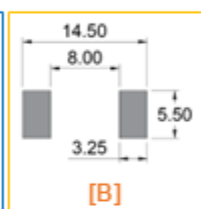
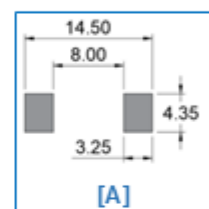
[B]



Picture



Land Pattern [Unit : mm]



Dimensions & Land Pattern	Part No.
[A]	R22/R36/R47/R50/R68/R82/1R0/1R5/2R2
[B]	3R3/4R7/6R8/8R2/100/150/220/330/470/680

Specifications

Part No.	L0 Inductance(μH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a	Heating Rating Current DC(A) b
		TYP.	MAX.	TYP.	TYP.
SPI130-50-R22M-A	0.22 ± 20%	0.58	0.7	75	50
SPI130-50-R36M-A	0.36 ± 20%	0.7	0.85	50	42
SPI130-50-R47M-A	0.47 ± 20%	0.91	1.09	49	39
SPI130-50-R50M-A	0.50 ± 20%	0.95	1.15	48	38
SPI130-50-R68M-A	0.68 ± 20%	1.29	1.55	46	33
SPI130-50-R82M-A	0.82 ± 20%	1.39	1.67	39	30
SPI130-50-1R0M-A	1.0 ± 20%	1.8	2.2	35	26
SPI130-50-1R5M-A	1.5 ± 20%	2.6	3.2	33	23
SPI130-50-2R2M-A	2.2 ± 20%	4.1	5	24	15
SPI130-50-3R3M-A	3.3 ± 20%	5.8	7	22	14
SPI130-50-4R7M-A	4.7 ± 20%	7.5	9	20	13
SPI130-50-6R8M-A	6.8 ± 20%	15	18	16	12
SPI130-50-8R2M-A	8.2 ± 20%	16.6	20	13	9.5
SPI130-50-100M-A	10.0 ± 20%	18.3	22	12	9
SPI130-50-150M-A	15.0 ± 20%	25	30	10	8
SPI130-50-220M-A	22.0 ± 20%	48.3	58	6.5	4.5
SPI130-50-330M-A	33.0 ± 20%	70	84	6	3.5
SPI130-50-470M-A	47.0 ± 20%	108.3	130	5	3
SPI130-50-680M-A	68.0 ± 20%	158.3	190	4	2.5

Notes

- * All test data is referenced to 25 °C ambient
- a) DC current (A) that will cause L0 to drop approximately 30 %
- b) DC current (A) that will cause an approximate ΔT of 40 °C

Packing Q'ty (PCS)

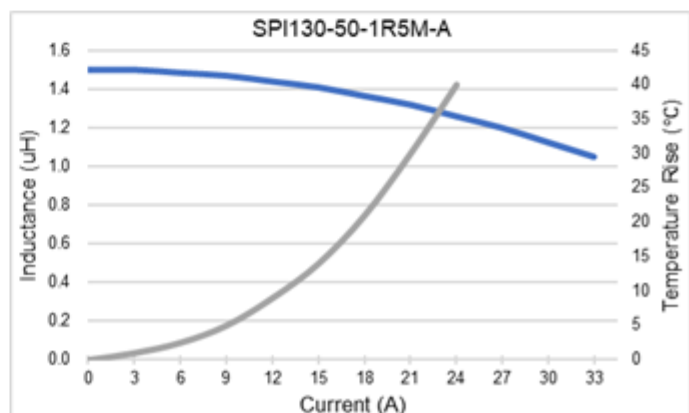
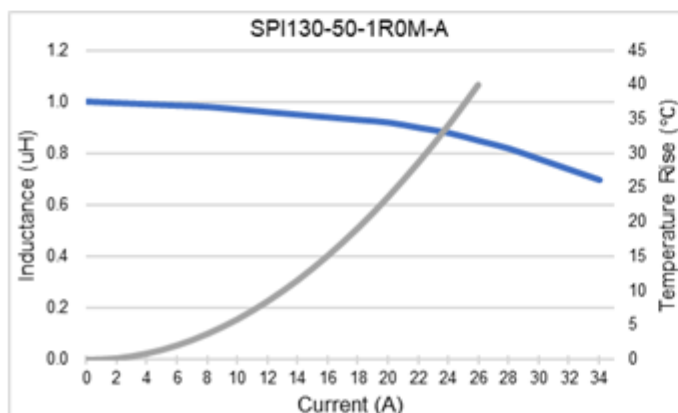
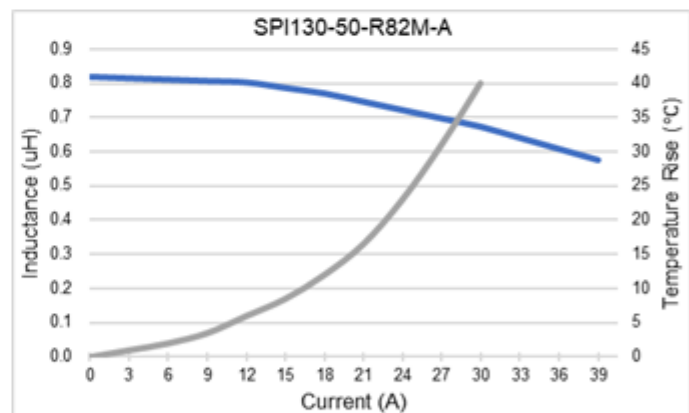
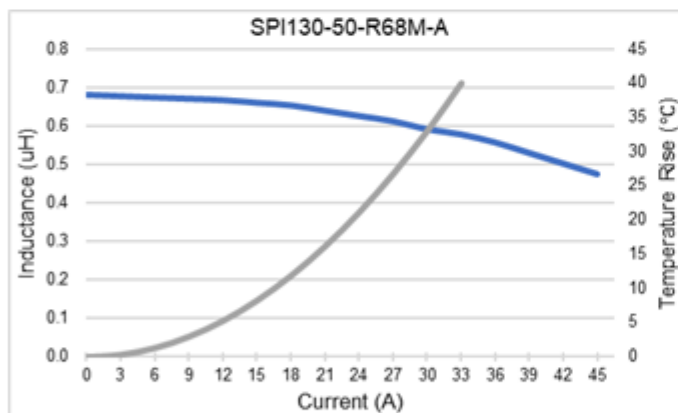
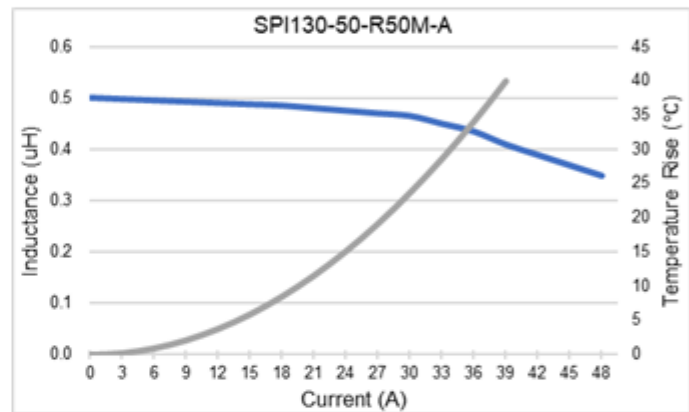
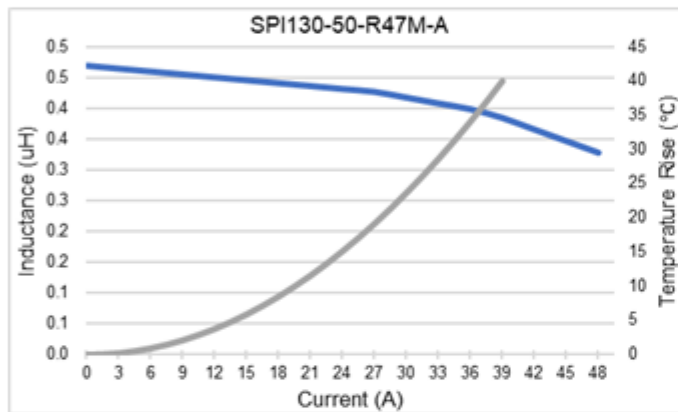
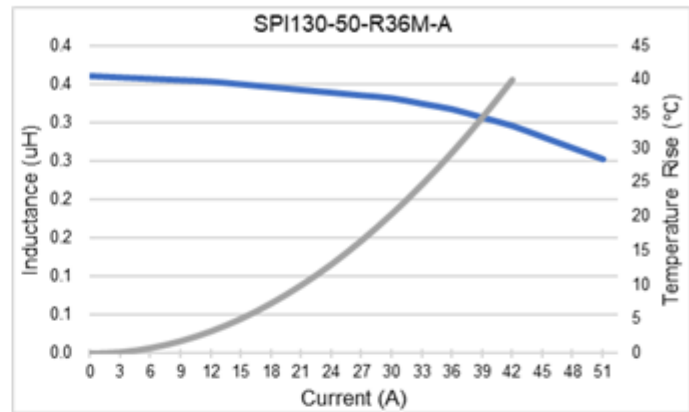
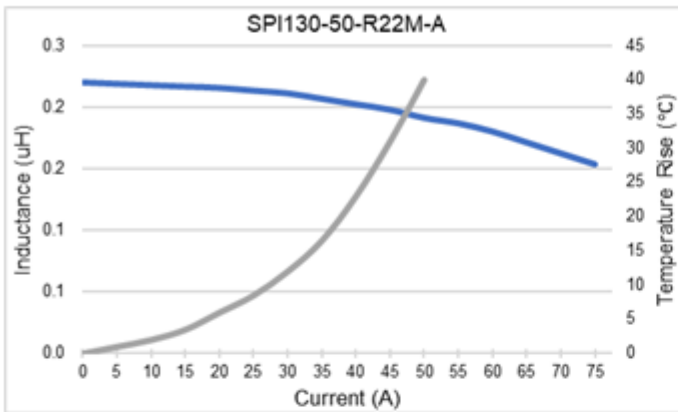
- * Reel : 600
- * Box : 2,400



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Performance Graph

— Inductance (μH)
— Temperature Rise ($^{\circ}\text{C}$)

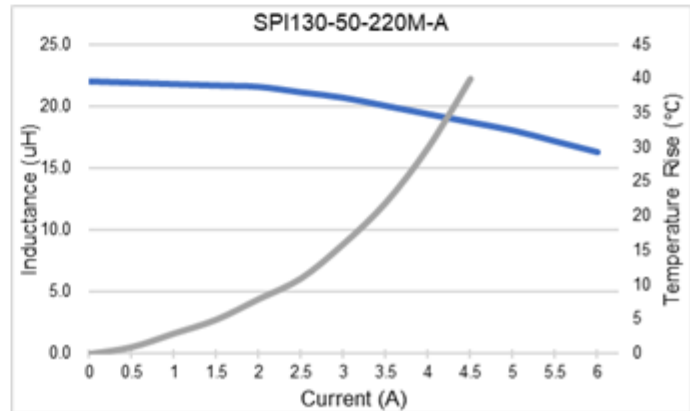
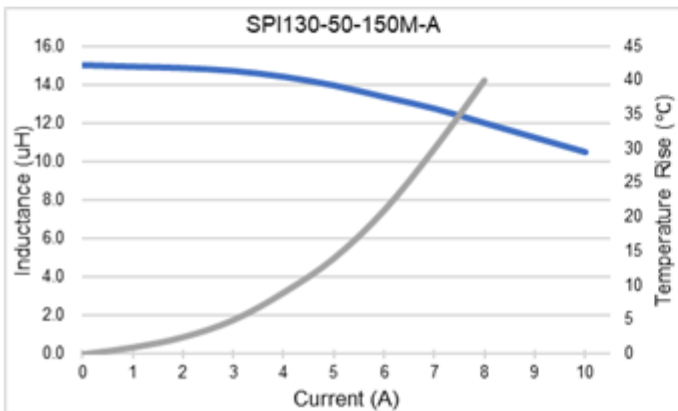
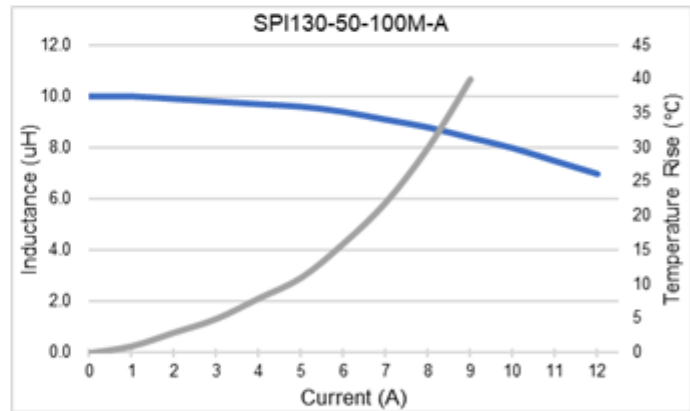
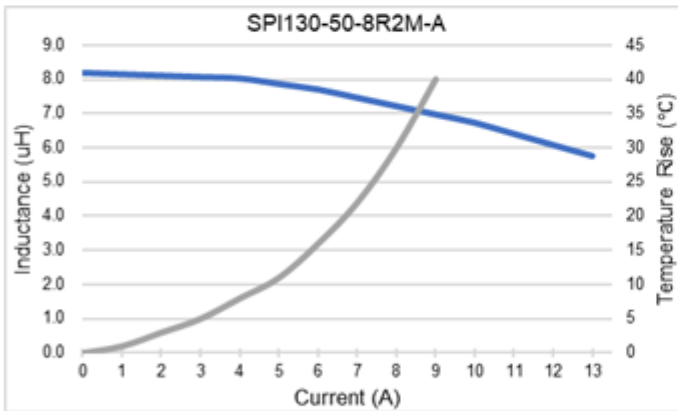
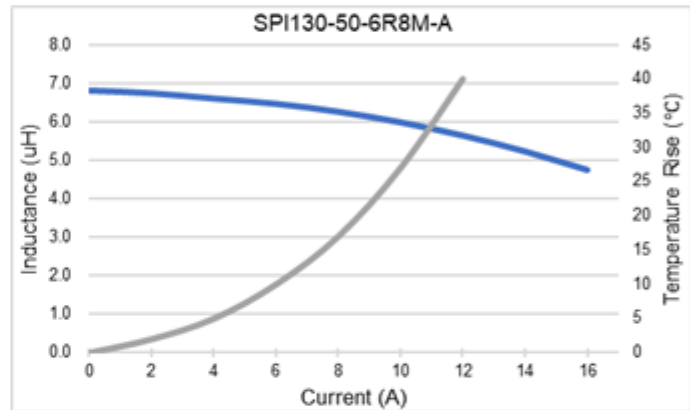
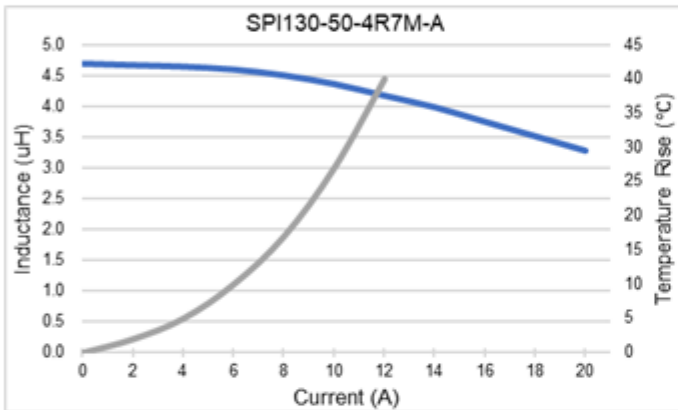
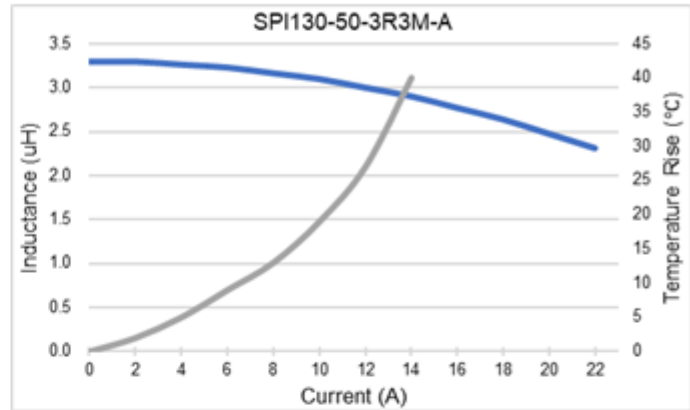
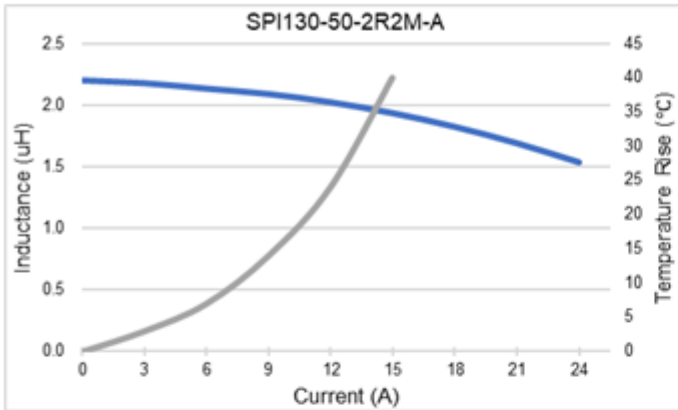




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Performance Graph

— Inductance (uH)
— Temperature Rise (°C)





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■ Performance Graph

— Inductance (uH)
— Temperature Rise (°C)

