



SPI170-70-SERIES-A



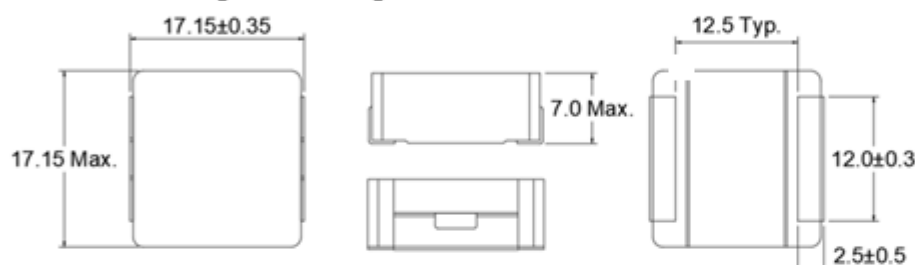
Applications

- 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

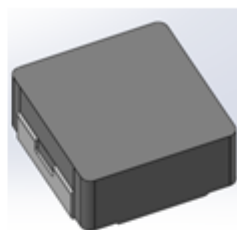
Environmental data

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

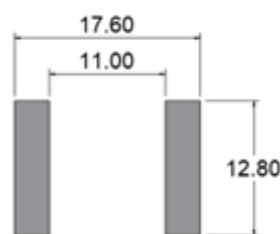
Dimensions [Unit : mm]



Picture



Land Pattern [Unit : mm]



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.
SPI170-70-1R0N-A	1.0 ± 30%	1.5	1.8	45	40
SPI170-70-2R2M-A	2.2 ± 20%	2.08	2.5	34	29
SPI170-70-3R3M-A	3.3 ± 20%	3.29	3.95	30	24
SPI170-70-4R7M-A	4.7 ± 20%	3.95	4.75	24	21
SPI170-70-6R8M-A	6.8 ± 20%	6.25	7.5	22	17
SPI170-70-8R2M-A	8.2 ± 20%	7.25	8.7	20	13
SPI170-70-100M-A	10.0 ± 20%	8.25	9.9	19	12
SPI170-70-150M-A	15.0 ± 20%	14.1	17	14.5	11
SPI170-70-220M-A	22.0 ± 20%	19.1	23	11.5	8.5
SPI170-70-330M-A	33.0 ± 20%	30.8	37	10	8
SPI170-70-470M-A	47.0 ± 20%	39.1	47	7.5	6
SPI170-70-680M-A	68.0 ± 20%	70.8	85	6.5	5.2
SPI170-70-101M-A	100.0 ± 20%	108.3	130	5	3.7

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)

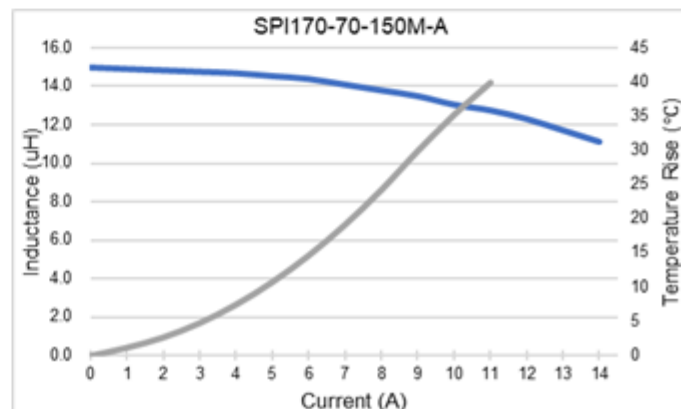
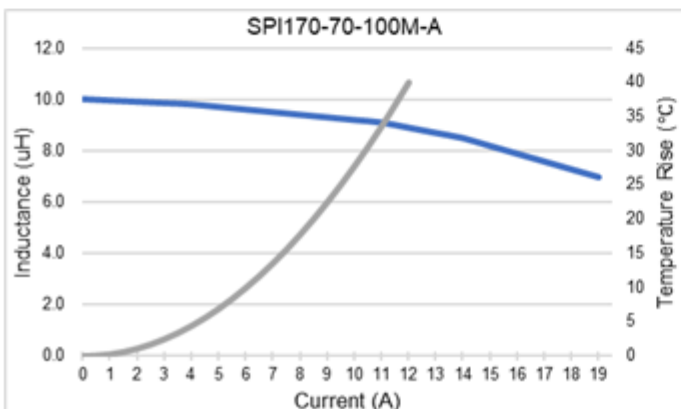
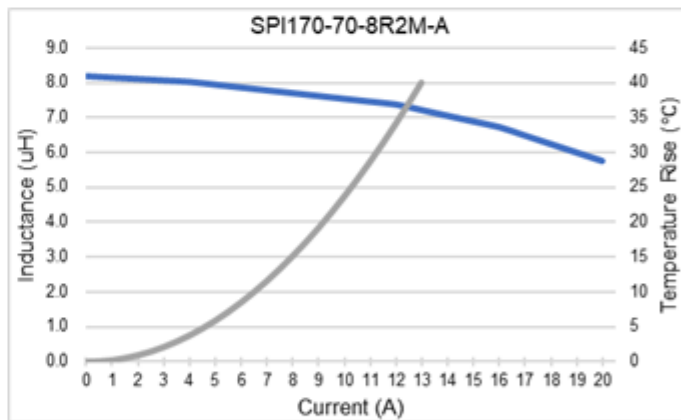
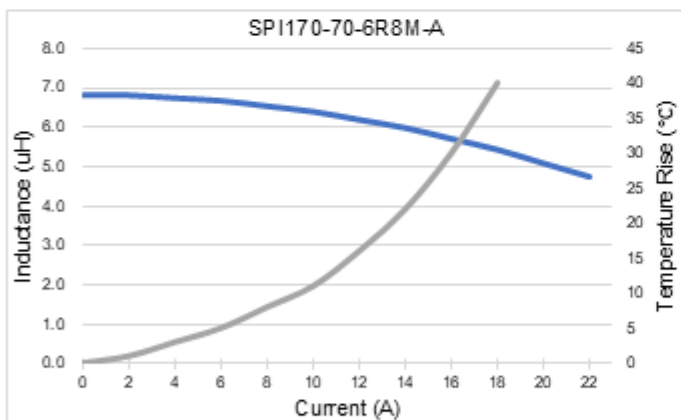
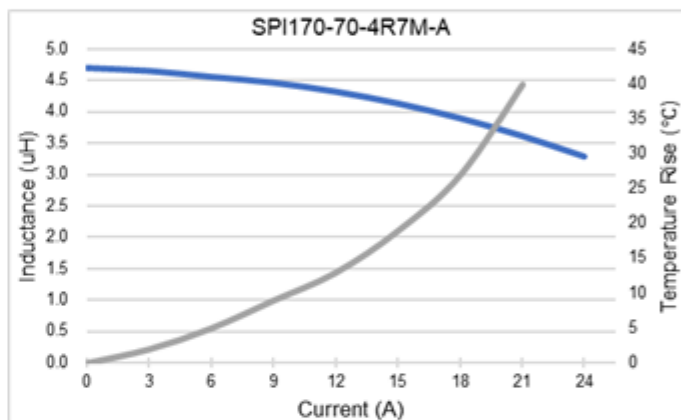
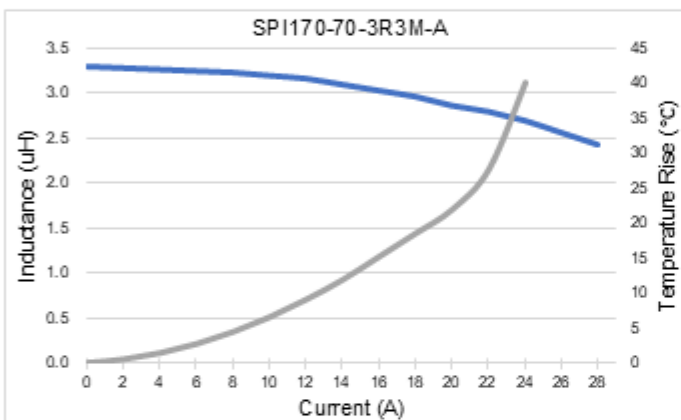
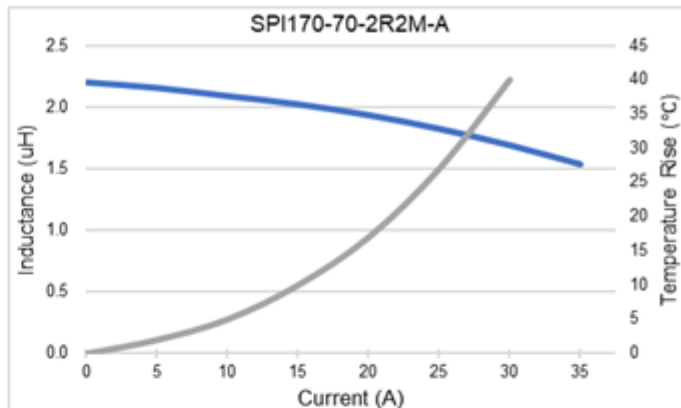
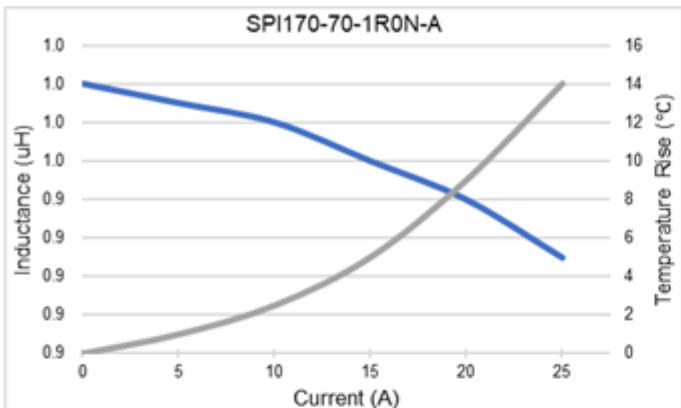
- * Reel : 200
- * Box : 600



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Performance Graph

Inductance (uH)
Temperature Rise (°C)





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Performance Graph

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

