



SPI070-18-SERIES-A



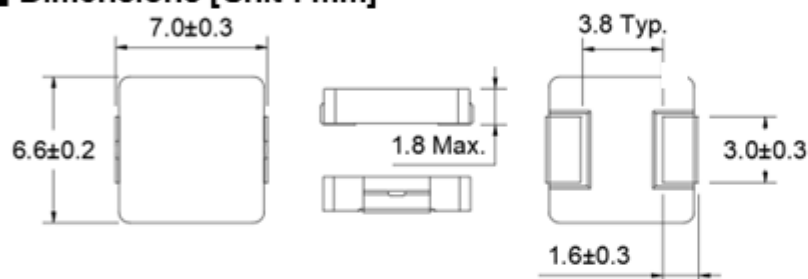
Applications

- 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

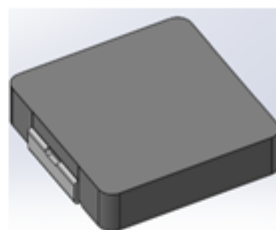
Environmental data

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

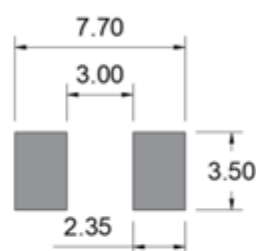
Dimensions [Unit : mm]



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.
SPI070-18-R10M-A	0.10 ± 20%	1.9	2.3	38	25
SPI070-18-R22M-A	0.22 ± 20%	2.9	3.5	24	22
SPI070-18-R47M-A	0.47 ± 20%	7	8.4	18	11.5
SPI070-18-R68M-A	0.68 ± 20%	10	12	16.5	9.5
SPI070-18-1R0M-A	1.0 ± 20%	13.3	16	12	8.5
SPI070-18-1R5M-A	1.5 ± 20%	21.6	26	9.2	8
SPI070-18-2R2M-A	2.2 ± 20%	29.1	35	8	7
SPI070-18-3R3M-A	3.3 ± 20%	41.6	50	6	4.5
SPI070-18-4R7M-A	4.7 ± 20%	51.6	62	5	4
SPI070-18-6R8M-A	6.8 ± 20%	91.6	110	4.5	3
SPI070-18-100M-A	10.0 ± 20%	129.1	155	4	2.3
SPI070-18-220M-A	22.0 ± 20%	291.6	350	2.3	1.8

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)

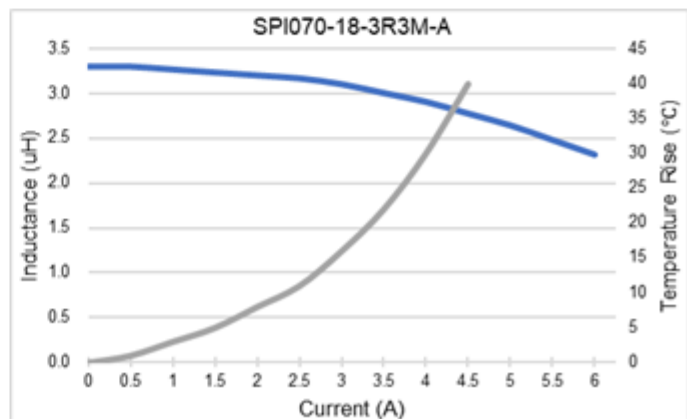
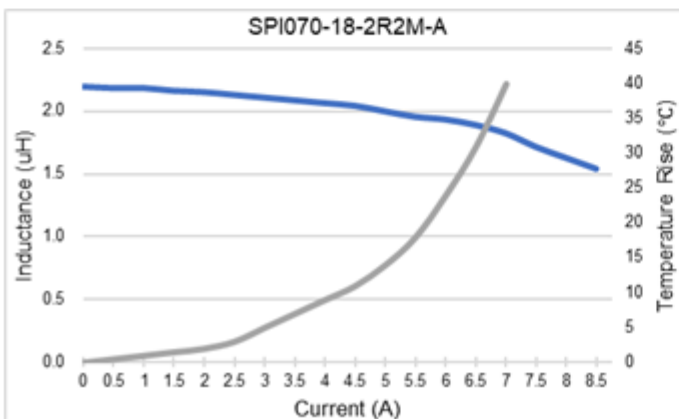
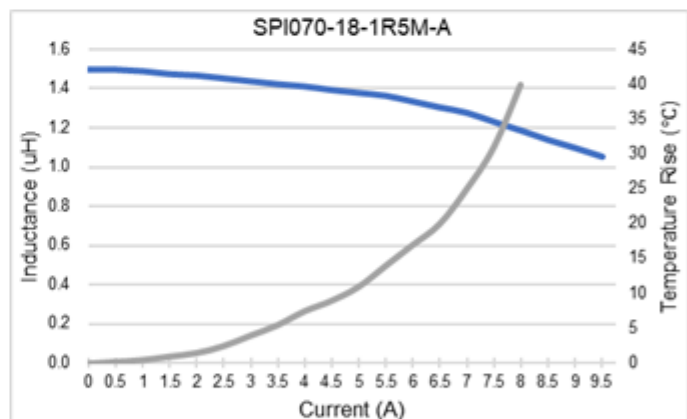
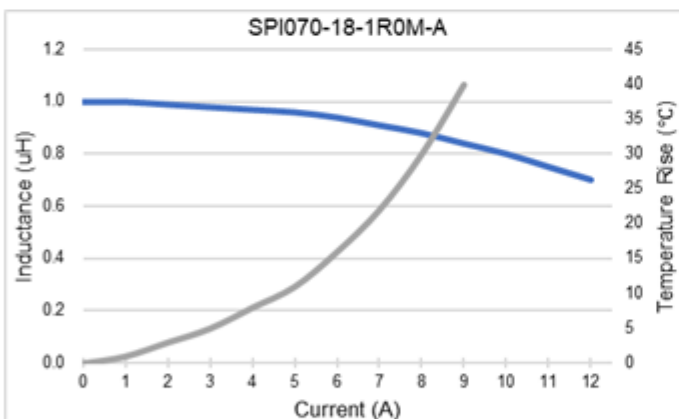
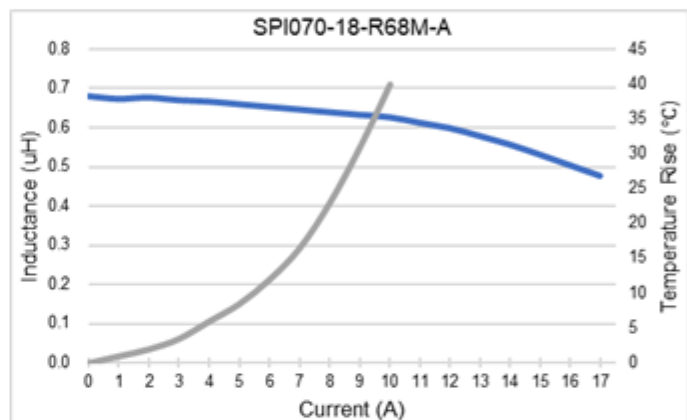
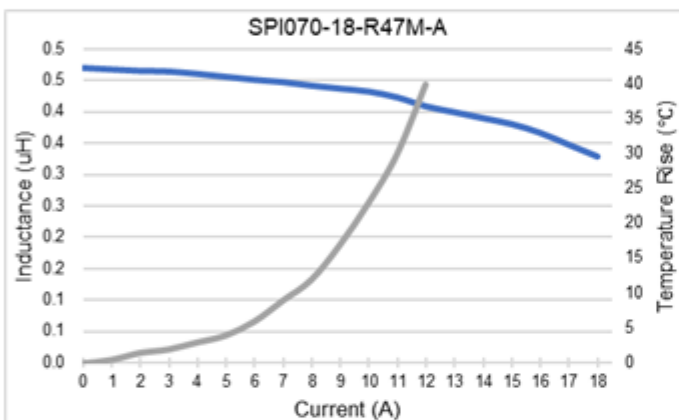
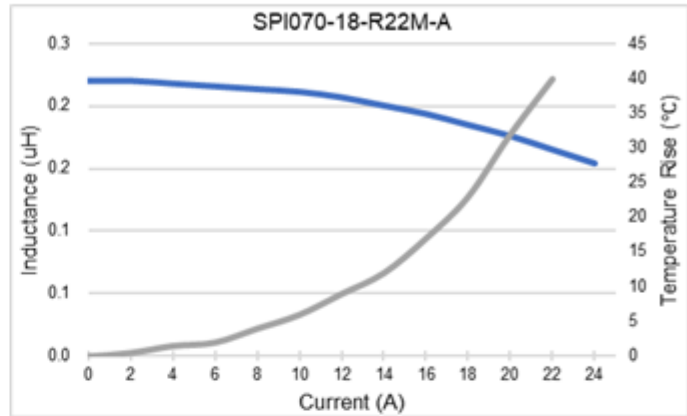
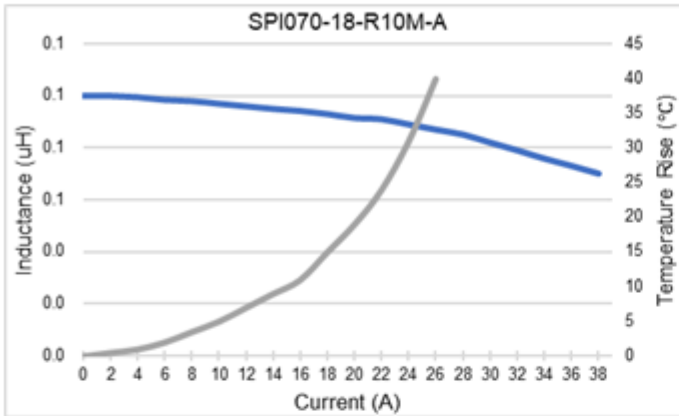
- * Reel : 2,000
- * Box : 10,000



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Performance Graph

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





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— Temperature Rise (°C)

