



## SPI070-50-SERIES-A

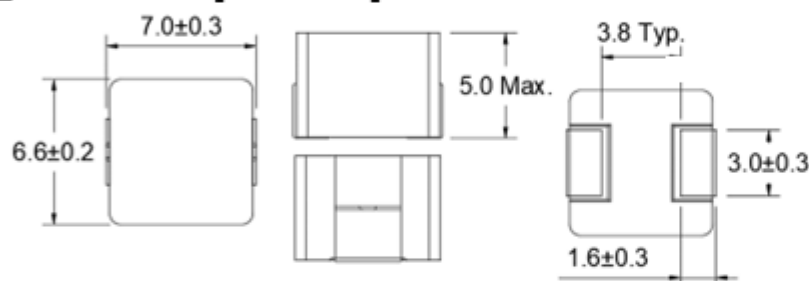
### Applications

- 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

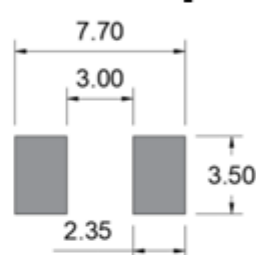
### Dimensions [Unit : mm]



### 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.
SPI070-50-R47M-A	0.47 ± 20%	3.2	3.9	21	20
SPI070-50-R68M-A	0.68 ± 20%	3.7	4.5	18	16.5
SPI070-50-1R0M-A	1.0 ± 20%	5.5	6.6	16	12
SPI070-50-1R5M-A	1.5 ± 20%	8.3	10	13	9.5
SPI070-50-2R2M-A	2.2 ± 20%	10.4	12.5	11	9
SPI070-50-3R3M-A	3.3 ± 20%	18.3	22	10	8.5
SPI070-50-4R7M-A	4.7 ± 20%	24.1	29	8	6
SPI070-50-6R8M-A	6.8 ± 20%	34.1	41	6.3	5.8
SPI070-50-8R2M-A	8.2 ± 20%	40	48	5.5	5.5
SPI070-50-100M-A	10.0 ± 20%	50	60	5.3	4.5
SPI070-50-150M-A	15.0 ± 20%	75	90	4	3.1
SPI070-50-220M-A	22.0 ± 20%	116.6	140	3.5	2.6
SPI070-50-330M-A	33.0 ± 20%	158.3	190	3	2.3
SPI070-50-470M-A	47.0 ± 20%	191.6	230	2.6	2
SPI070-50-680M-A	68.0 ± 20%	405	465	2	1.5

### 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)

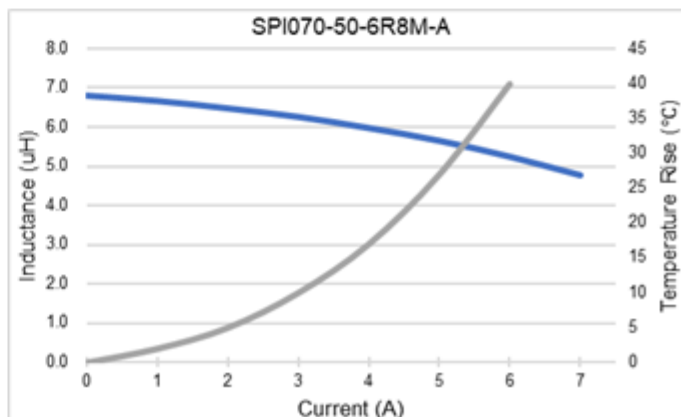
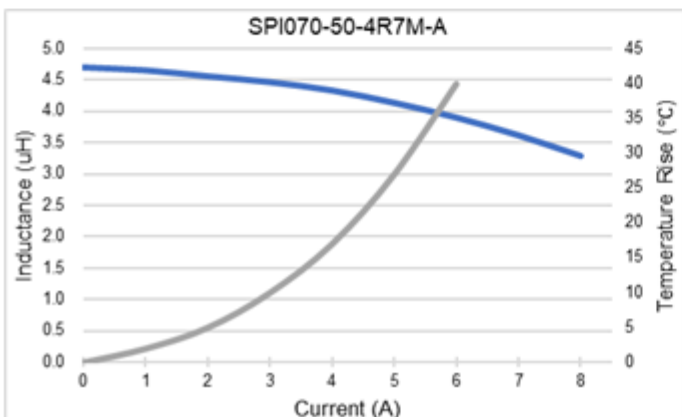
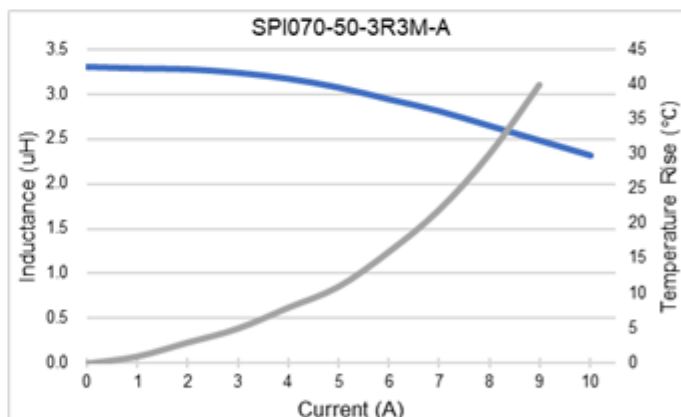
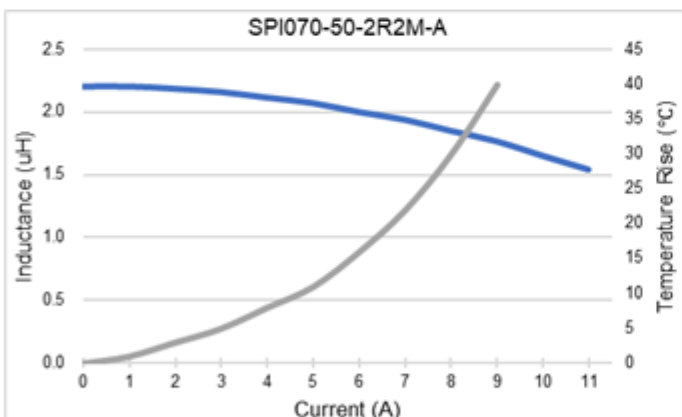
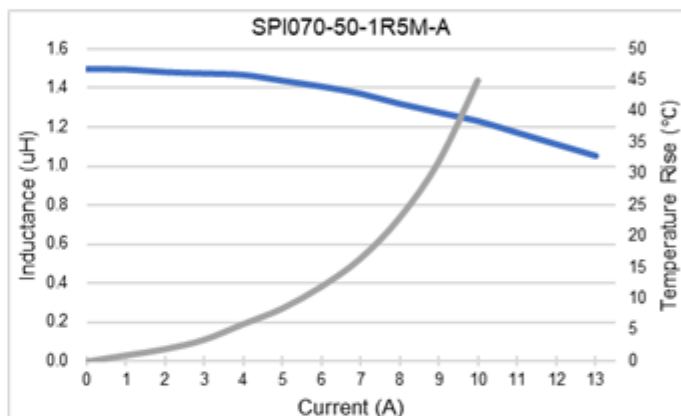
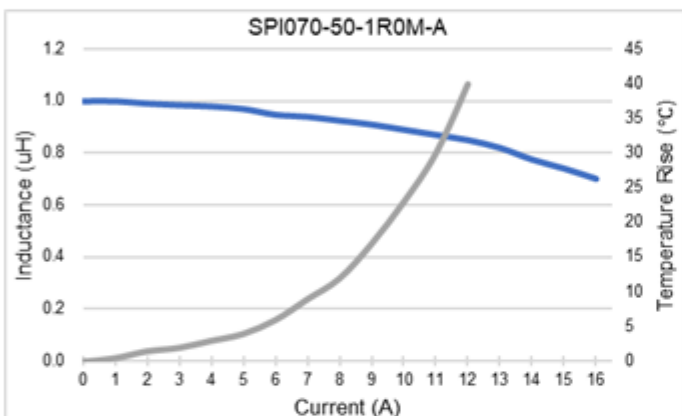
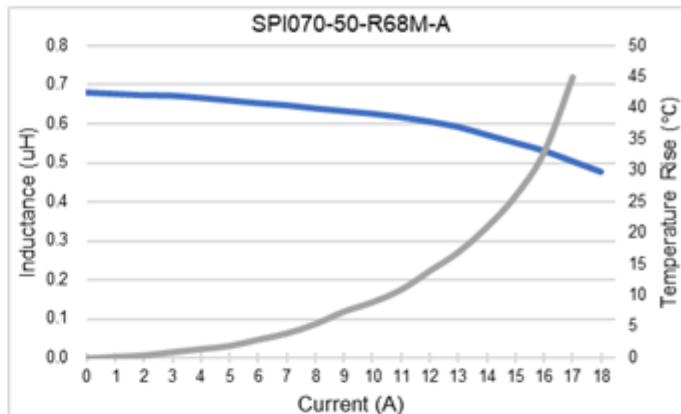
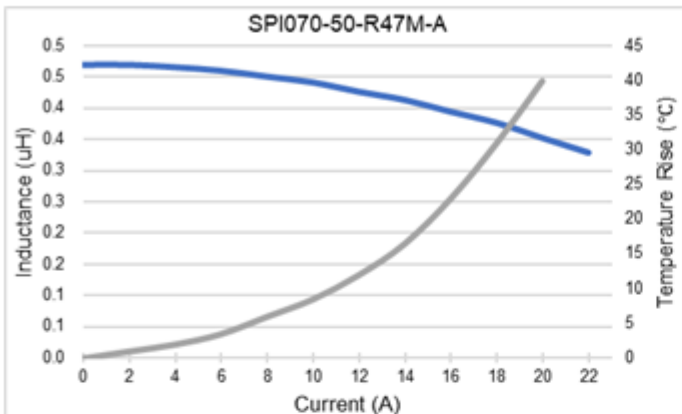
- \* Reel : 1,000
- \* Box : 5,000



## SPI070-50-SERIES-A

### Performance Graph

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





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

