



## SPI040-20-SERIES-A



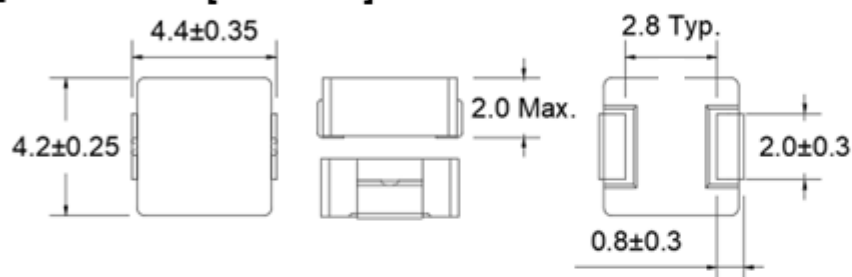
### Applications

- 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

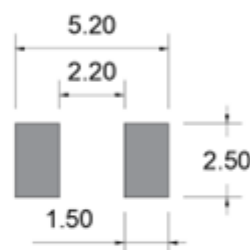
### Dimensions [Unit : mm]



### 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.
SPI040-20-R10M-A	0.10 ± 20%	3.3	4	22	13
SPI040-20-R22M-A	0.22 ± 20%	5.5	6.6	12.5	9.5
SPI040-20-R33M-A	0.33 ± 20%	9.1	11	12	10
SPI040-20-R47M-A	0.47 ± 20%	11.6	14	9.5	7.5
SPI040-20-R56M-A	0.56 ± 20%	13.3	16	9	7
SPI040-20-R68M-A	0.68 ± 20%	15	18	8	7
SPI040-20-1R0M-A	1.0 ± 20%	22.5	27	7	6
SPI040-20-1R2M-A	1.2 ± 20%	22.5	27	6.5	6
SPI040-20-1R5M-A	1.5 ± 20%	38.3	46	5.5	5
SPI040-20-2R2M-A	2.2 ± 20%	48.3	58	5	4.5
SPI040-20-3R3M-A	3.3 ± 20%	72.5	87	3.5	3.3
SPI040-20-4R7M-A	4.7 ± 20%	87.5	105	3	2.8
SPI040-20-6R8M-A	6.8 ± 20%	145.8	175	2.5	2.4
SPI040-20-100M-A	10.0 ± 20%	235	282	2	1.6
SPI040-20-150M-A	15.0 ± 20%	340	410	1.8	1.4

### 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)

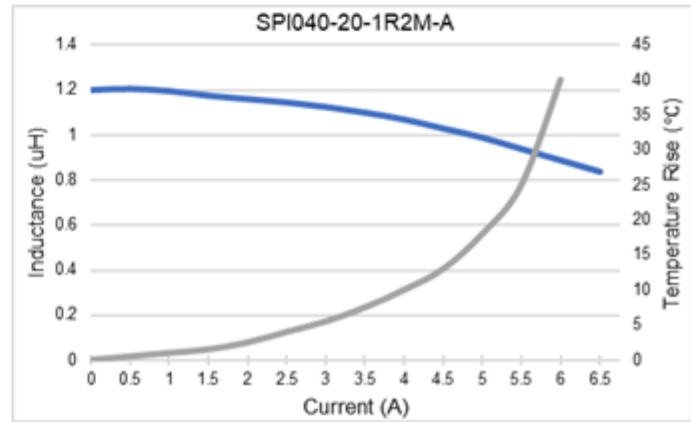
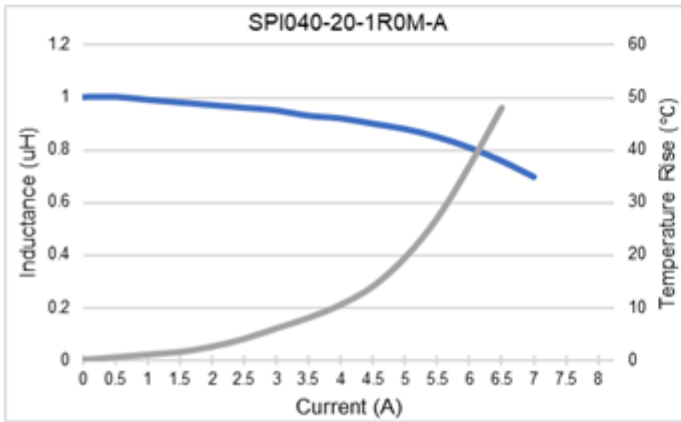
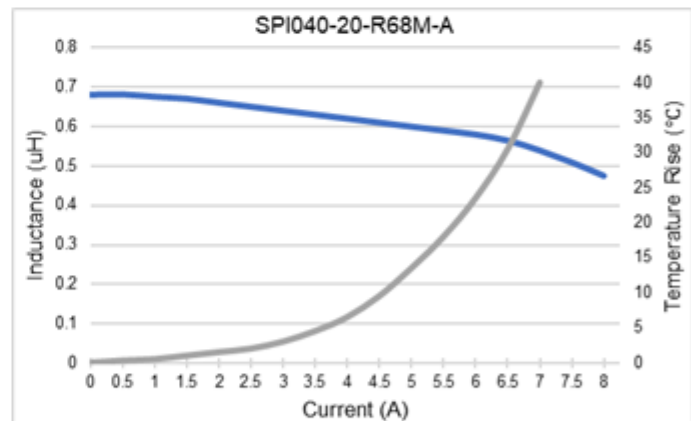
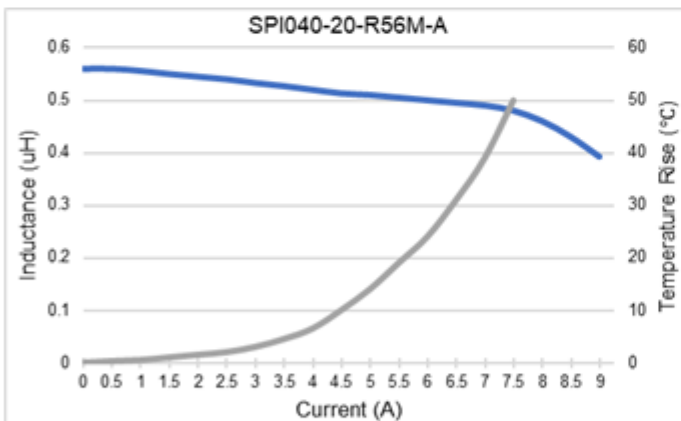
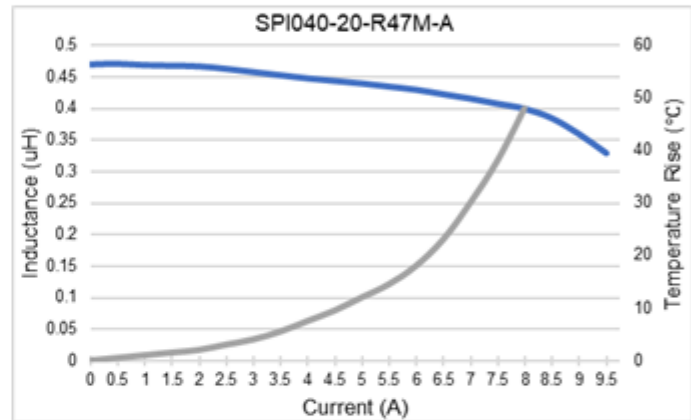
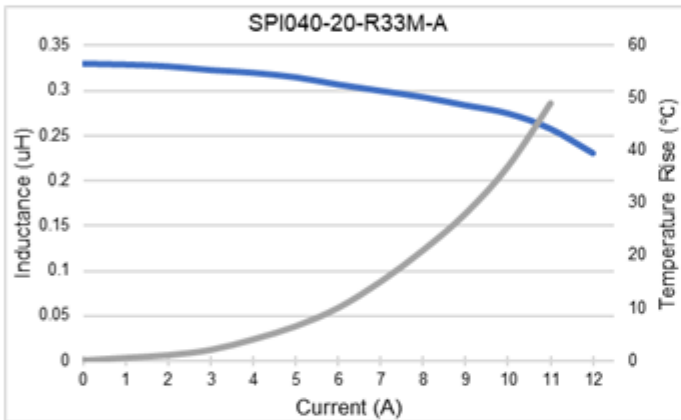
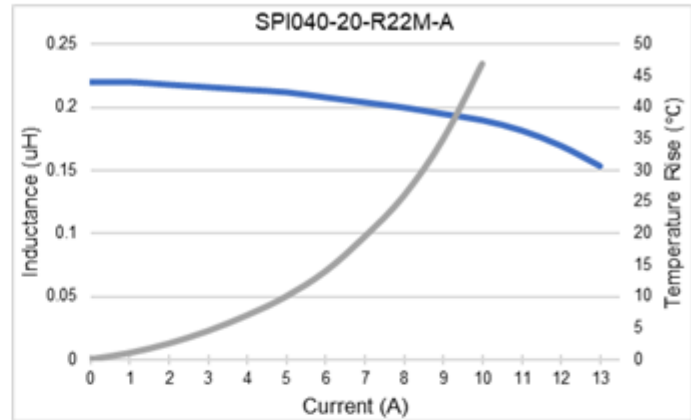
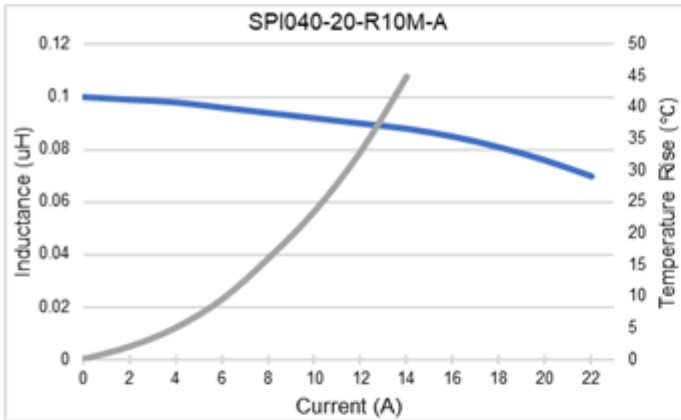
- \* Reel : 3,000
- \* Box : 15,000



## SPI040-20-SERIES-A

### Performance Graph

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





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— Temperature Rise (°C)

