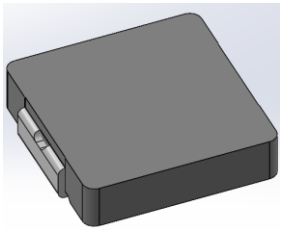
SPI040-12-SERIES-A

AEC-Q200(G-0) Pb-Free HALOGEN FREE

■ 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

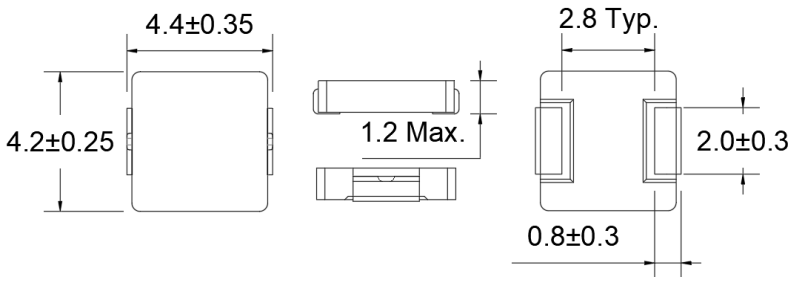
■ Picture



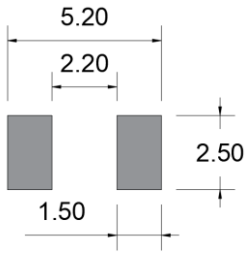
■ Environmental data

- 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]



■ Land Pattern [Unit : mm]



■ Specifications

Part No.	L0 Inductance(uH) 100kHz, 1V, 0A	DCR (mΩ)		Saturation Current DC(A) a)	Heating Rating Current DC(A) b)
		TYP.	MAX.	TYP.	TYP.
SPI040-12-R15M-A	0.15±20%	7.5	9	15	7.5
SPI040-12-R22M-A	0.22±20%	9.1	11	11	7
SPI040-12-R33M-A	0.33±20%	15.8	19	8.4	6.5
SPI040-12-R47M-A	0.47±20%	17.5	21	6.8	6
SPI040-12-R68M-A	0.68±20%	30	36	6	4.7
SPI040-12-1R0M-A	1.0±20%	39.1	47	5.5	4.5
SPI040-12-1R5M-A	1.5±20%	62.5	75	4	3.25
SPI040-12-2R2M-A	2.2±20%	69.5	83.5	3	2.75
SPI040-12-4R7M-A	4.7±20%	162.5	195	2.2	1.8

■ Notes

* All test data is referenced to 25 °C ambient

a) DC current (A) that will cause L0 to drop approximately 30 %

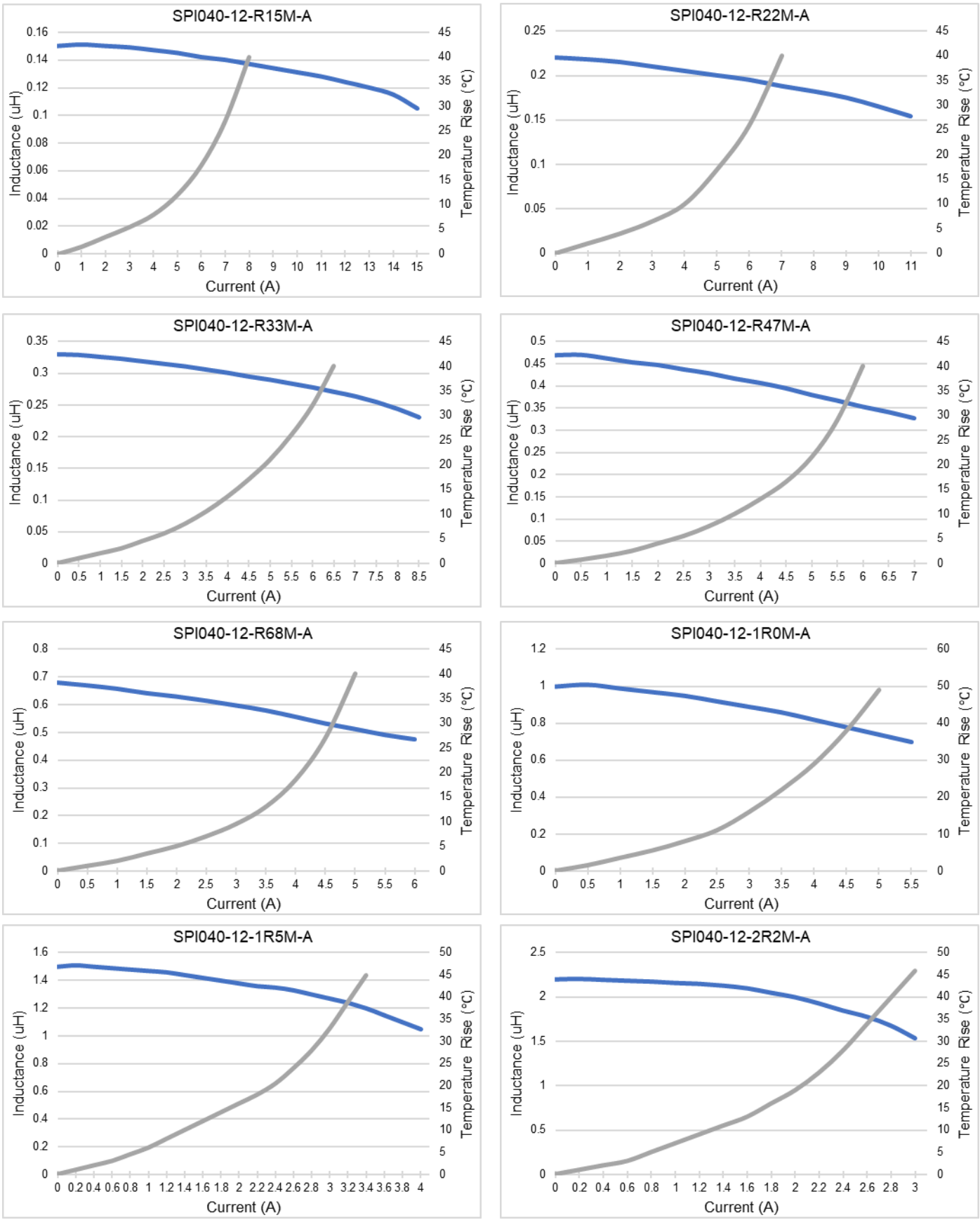
b) DC current (A) that will cause an approximate ΔT of 40 °C

■ Packing Q'ty (PCS)

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

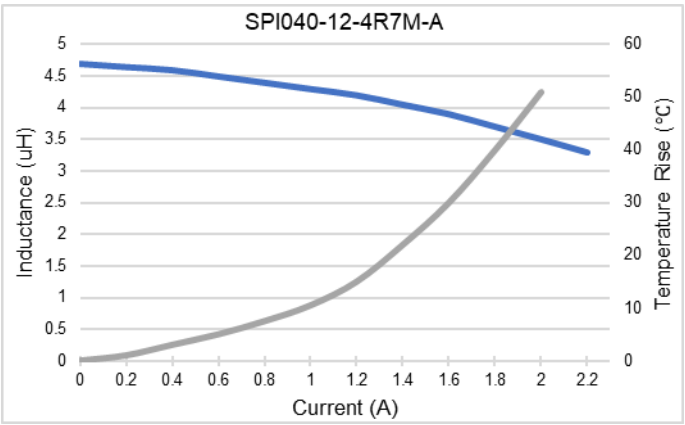
SPI040-12-SERIES-A

■ Performance Graph



SPI040-12-SERIES-A

■ Performance Graph



Inductance (uH)
Temperature Rise (℃)