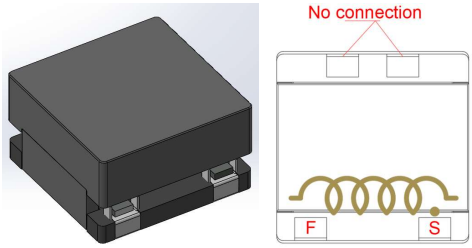
BSH1590-SERIES-A

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

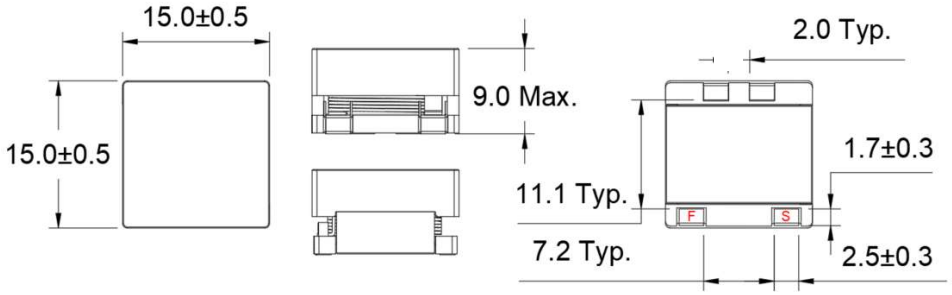
■ Picture



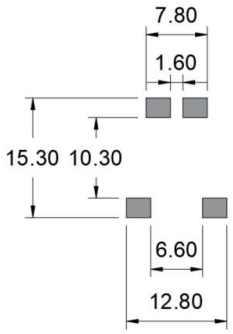
■ Environmental data

- Operating temperature range : -50°C ~ +150°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) 25 °C a)		Saturation Current DC(A) 150 °C b)		Heating Rating Current DC(A) c)	
		TYP.	MAX.	TYP.	MAX.	TYP.	MAX.	TYP.	MAX.
BSH1590-1R5M-A	1.5±20%	2.2	2.6	33	26.4	26	20.8	21.8	18.2
BSH1590-2R2M-A	2.2±20%	2.7	3.2	30	24	21.8	17.4	19.6	16.4
BSH1590-3R3M-A	3.3±20%	3.7	4.4	25	20	17	13.6	17	14.2
BSH1590-4R7M-A	4.7±20%	4.6	5.5	20	16	15.4	12.3	13.2	11
BSH1590-6R8M-A	6.8±20%	6.8	8.1	17	13.6	11.4	9.1	9.9	8.3
BSH1590-100M-A	10.0±20%	10.4	12.4	15	12	10.6	8.5	9.2	7.7
BSH1590-150M-A	15.0±20%	14	16.8	12	9.6	8.2	6.7	8.5	7
BSH1590-220M-A	22.0±20%	25.9	31	9.6	7.7	7.3	5.8	6.6	5.5
BSH1590-330M-A	33.0±20%	31	37.2	7.6	6	5.5	4.4	5.7	4.8
BSH1590-470M-A	47.0±20%	47	56.4	6.4	5.1	4.5	3.6	5.1	4.3

■ 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 L0 to drop approximately 40 %

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

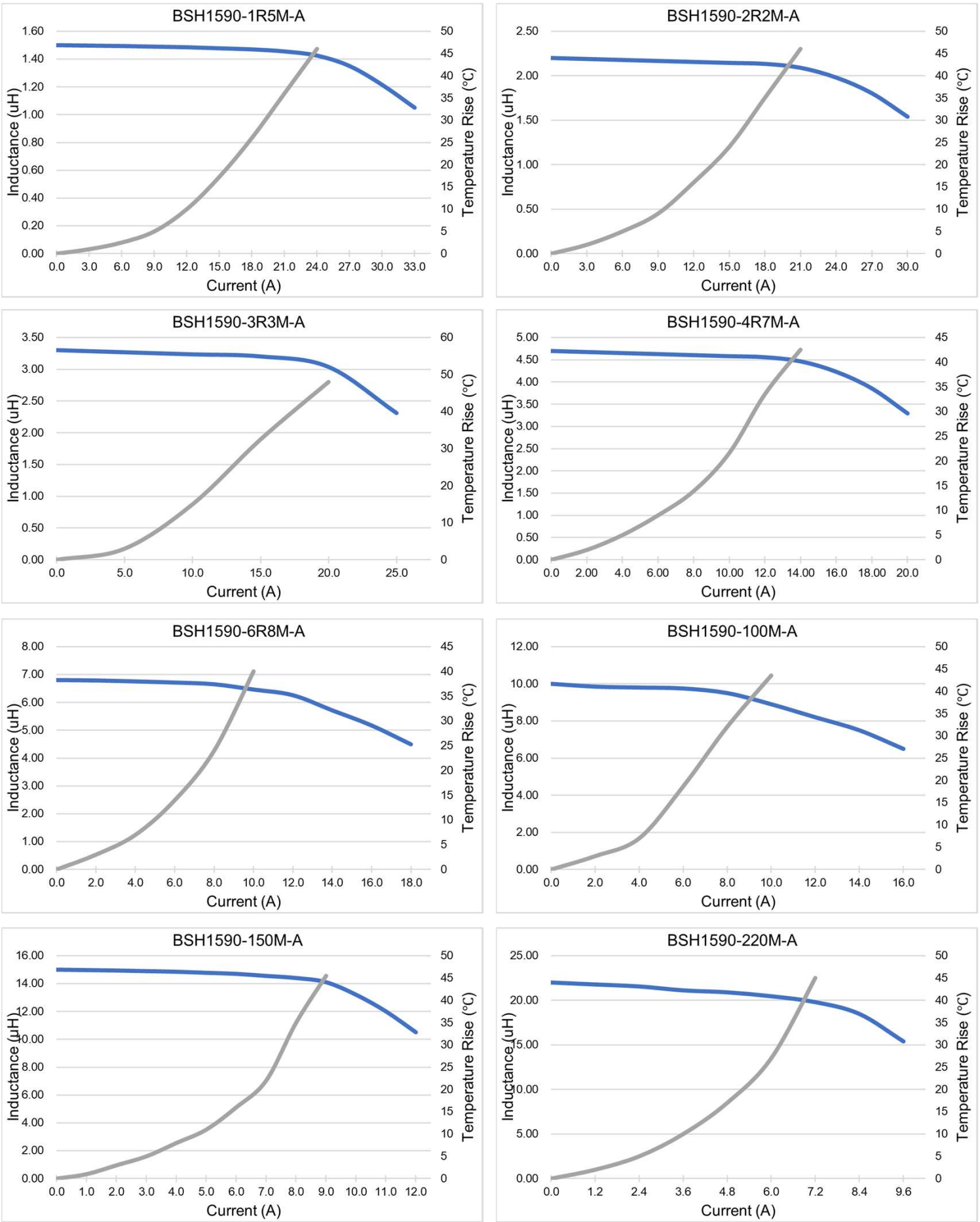
■ Packing Q'ty (PCS)

* Reel : 300

* Box : 1,200

BSH1590-SERIES-A

■ Performance Graph



BSH1590-SERIES-A

■ Performance Graph

