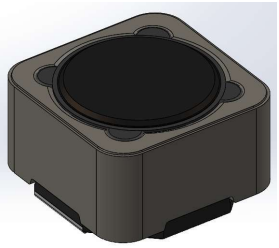
# TSL1280-SERIES-A

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

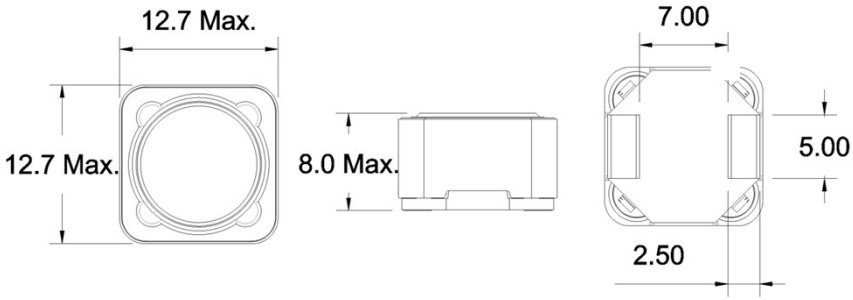
## ■ Picture



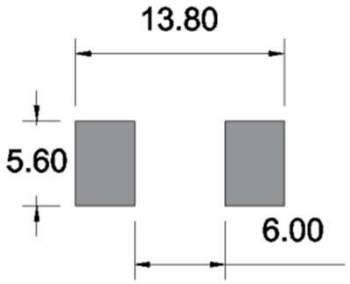
## ■ Environmental data

- Operating temperature range : -50°C ~ +165°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) 125 °C b) | Heating Rating Current DC(A) c) |
|---|---|---|---|---|---|---|
| | | TYP. | MAX. | TYP. | TYP. | TYP. |
| **TSL1280-3R3M-A** | 3.3 | 8.5 | 10.4 | 25.6 | 19.2 | 11 |
| **TSL1280-4R7M-A** | 4.7 | 9.5 | 11.4 | 20.9 | 15.6 | 9.5 |
| **TSL1280-6R8M-A** | 6.8 | 15 | 18 | 15.2 | 11.4 | 8.4 |
| **TSL1280-100M-A** | 10 | 17.5 | 21 | 13 | 9.7 | 7.7 |
| **TSL1280-150M-A** | 15 | 26.5 | 32 | 11.6 | 8.7 | 6.3 |
| **TSL1280-220M-A** | 22 | 47 | 56.4 | 8.2 | 6.1 | 4.6 |
| **TSL1280-330M-A** | 33 | 60 | 72 | 7.1 | 5.3 | 4 |
| **TSL1280-470M-A** | 47 | 85 | 102 | 5.7 | 4.2 | 3.6 |
| **TSL1280-680M-A** | 68 | 115 | 138 | 4.9 | 3.7 | 2.8 |
| **TSL1280-101M-A** | 100 | 150 | 180 | 3.8 | 2.9 | 2.5 |
| **TSL1280-151M-A** | 150 | 255 | 306 | 3.5 | 2.6 | 1.9 |
| **TSL1280-221M-A** | 220 | 380 | 456 | 3.1 | 2.3 | 1.5 |
| **TSL1280-331M-A** | 330 | 592 | 710 | 2.3 | 1.7 | 1.1 |
| **TSL1280-471M-A** | 470 | 855 | 1,026 | 1.9 | 1.4 | 1 |
| **TSL1280-681M-A** | 680 | 1,020 | 1,124 | 1.7 | 1.2 | 0.95 |

## ■ 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

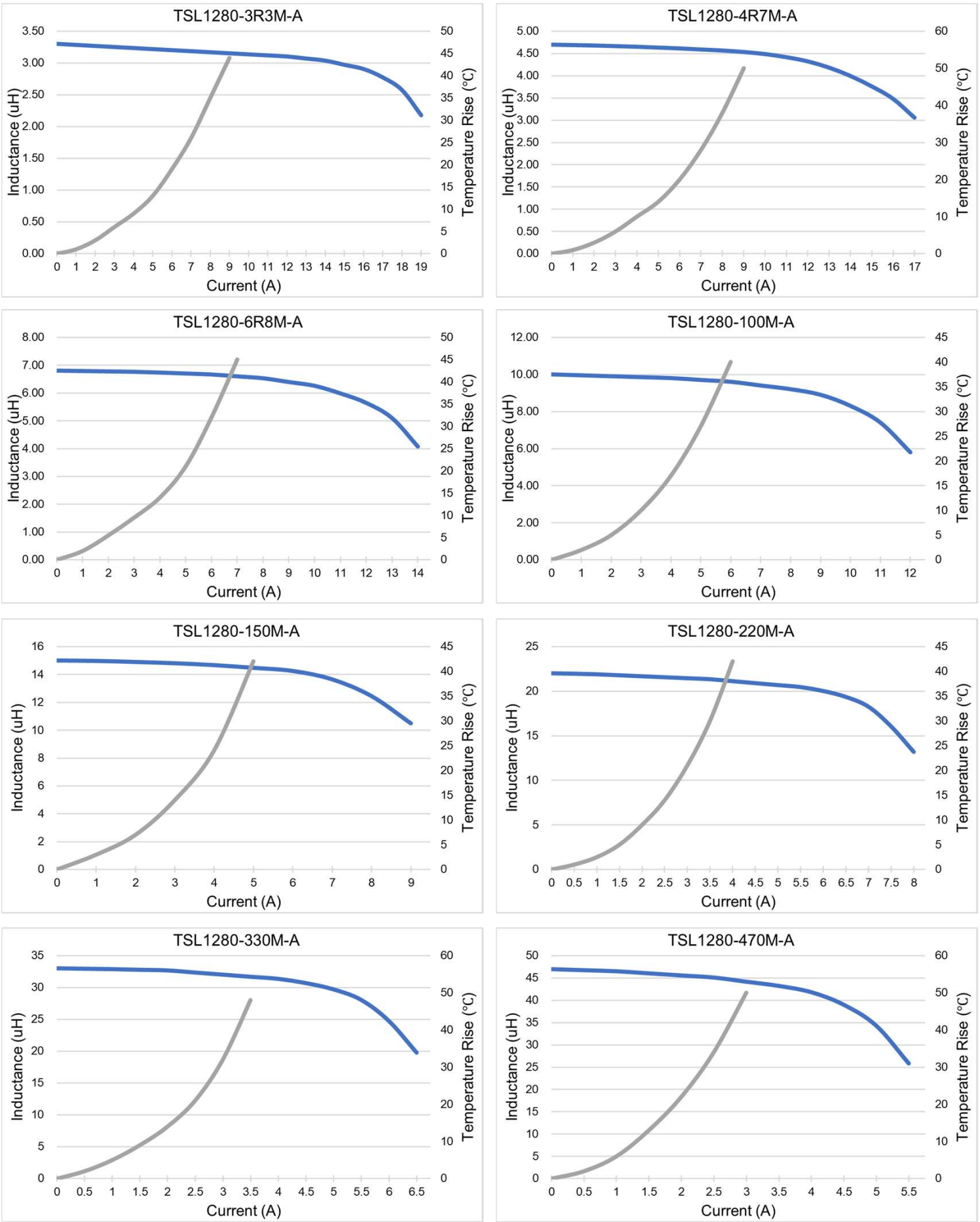
## ■ Packing Q'ty (PCS)

* Reel : 500

* Box : 2,000

# TSL1280-SERIES-A

## ■ Performance Graph



# TSL1280-SERIES-A

## ■ Performance Graph

