

**THC Series**  
**SMD High Current Inductor**  
**Size 2818**



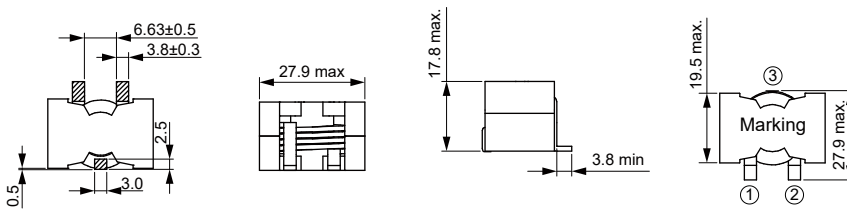
**CHARACTERISTICS**

- High saturation current up to 100A
- Low losses with flat wire design
- Low core losses with Mnzn core material
- Quantity: 30pcs

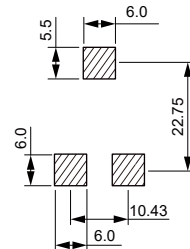
**APPLICATION**

- High current DC/DC converter
- LC filter

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

| Part No      | Inductance (μH) | Tolerance | Temperature Rise Current Typ. (A) | Saturation Current Typ. (A) | DC Resistance Typ. (mΩ) | DC Resistance Max. (mΩ) |
|--------------|-----------------|-----------|-----------------------------------|-----------------------------|-------------------------|-------------------------|
| THC2818-1R0M | 1.00            | ±20%      | 60.0                              | 120                         | 0.50                    | 0.60                    |
| THC2818-1R5M | 1.50            | ±20%      | 50.0                              | 110                         | 0.72                    | 0.87                    |
| THC2818-2R2M | 2.20            | ±20%      | 50.0                              | 85.0                        | 0.72                    | 0.87                    |
| THC2818-3R3M | 3.30            | ±20%      | 28.0                              | 91.0                        | 2.60                    | 2.86                    |
| THC2818-4R7M | 4.70            | ±20%      | 28.0                              | 61.2                        | 2.60                    | 2.86                    |
| THC2818-6R8M | 6.80            | ±20%      | 28.0                              | 45.0                        | 2.60                    | 2.86                    |
| THC2818-100M | 10.0            | ±20%      | 28.0                              | 31.2                        | 2.60                    | 2.86                    |
| THC2818-150M | 15.0            | ±20%      | 28.0                              | 21.2                        | 2.60                    | 2.86                    |
| THC2818-220M | 22.0            | ±20%      | 28.0                              | 14.0                        | 2.60                    | 2.86                    |
| THC2818-330M | 33.0            | ±20%      | 28.0                              | 8.70                        | 2.60                    | 2.86                    |

Operating Temperature: -40°C to +125°C

Temperature Rise Current: the actual value of DC current when the temperature rise is ΔT40°C

Saturation Current that will cause initial inductance to drop approximately 20%

Typical Electrical Characteristics:

