



**NRSE Series**  
**SMD Shielded Tiny Power Inductor**  
**Size 5040**

**CHARACTERISTICS**

- Magnetic resin for higher current and semi-magnetically shielded
- Quantity: 1500pcs

**APPLICATION**

- DC/DC converter
- LC filter

Dimensions: [mm]

Land Pattern: [mm]



**Electrical Properties:**

Character A

| 4.904.303.903.803.603.403.203 | 002.802.502.302.102.001.501.301.201 | 3.015.018.019.022.024.027.030.033.043.055.064.086.01291651887.356.306.104.904.303 |
|-------------------------------|-------------------------------------|---|
|                               |                                     |   |



|               |      |      | (A)  | Temperature<br>(A) | DCR<br>±30% |
|---------------|------|------|------|--------------------|-------------|
| NRSE5040-390M | 39.0 | ±20% | 1.20 | 1.10               | 225         |
| NRSE5040-470M | 47.0 | ±20% | 1.10 | 1.00               | 270         |
| NRSE5040-560M | 56.0 | ±20% | 1.00 | 0.90               | 375         |
| NRSE5040-680M | 68.0 | ±20% | 0.90 | 0.80               | 400         |
| NRSE5040-101M | 100  | ±20% | 0.75 | 0.70               | 560         |
| NRSE5040-221M | 220  | ±20% | 0.45 | 0.40               | 1200        |
| NRSE5040-471M | 470  | ±20% | 0.40 | 0.30               | 2800        |

Operating temperature : -40C ~ +125C

Temperature rise current: the actual value of DC current when the temperature rise is T40C

Saturation Current that will cause initial inductance to drop approximately 30%

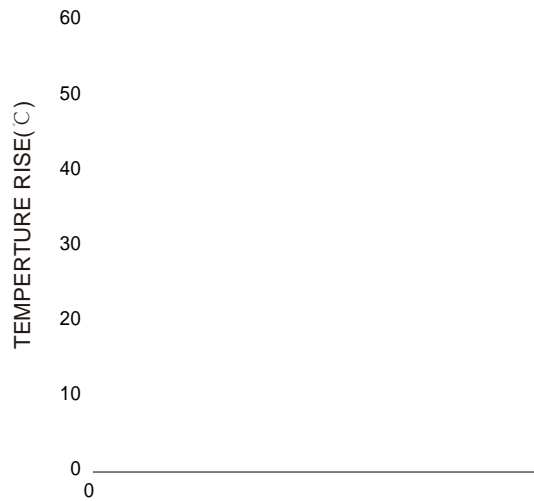
## Typical Electrical Characteristics:

Inductance VS. Current Characteristics:

INDUCTANCE(μH)

CURRENT(A)

Temperature Rise VS. Current Characteristics:



CURRENT(A)