

**NRSE Series**  
**SMD Shielded Tiny Power Inductor**  
**Size 2512**



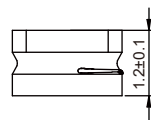
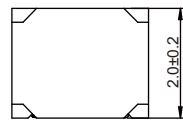
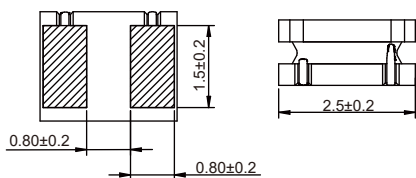
**CHARACTERISTICS**

- Magnetic resin for higher current and semi-magnetically shielded
- Different sizes from 2mm to 8mm in square shape
- Quantity: 2000pcs

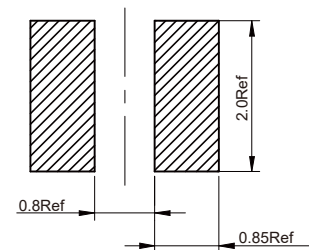
**APPLICATION**

- DC/DC converter
- LC filter

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

Part No	Inductance (μH)	Tolerance	Saturation current Max. (A)	Saturation current Typ. (A)	Temperature Rise Current Max. (A)	Temperature Rise Current Typ. (A)	DCR Max. (Ω)
NRSE2512-R24M	0.24	±20%	4.10	4.80	4.10	4.50	0.023
NRSE2512-R33M	0.33	±20%	4.00	4.70	3.35	3.70	0.031
NRSE2512-R47M	0.47	±20%	3.80	4.50	3.00	3.30	0.036
NRSE2512-R68M	0.68	±20%	3.00	3.30	2.30	2.50	0.047
NRSE2512-1R0M	1.0	±20%	2.25	2.50	2.30	2.60	0.060
NRSE2512-1R2M	1.2	±20%	2.20	2.50	2.00	2.20	0.078
NRSE2512-1R5M	1.5	±20%	2.00	2.35	1.80	2.00	0.090
NRSE2512-1R8M	1.8	±20%	1.95	2.20	1.75	1.90	0.108
NRSE2512-2R2M	2.2	±20%	1.75	1.90	1.75	1.90	0.108
NRSE2512-2R7M	2.7	±20%	1.30	1.60	1.40	1.50	0.156
NRSE2512-3R3M	3.3	±20%	1.20	1.35	1.40	1.50	0.156
NRSE2512-4R7M	4.7	±20%	1.10	1.20	1.10	1.20	0.228
NRSE2512-5R6M	5.6	±20%	1.00	1.10	1.00	1.15	0.330
NRSE2512-6R8M	6.8	±20%	0.90	1.10	0.95	1.05	0.360
NRSE2512-100M	10	±20%	0.70	0.85	0.78	0.86	0.522
NRSE2512-150M	15	±20%	0.60	0.70	0.50	0.60	1.000
NRSE2512-220M	22	±20%	0.45	0.55	0.48	0.55	1.290

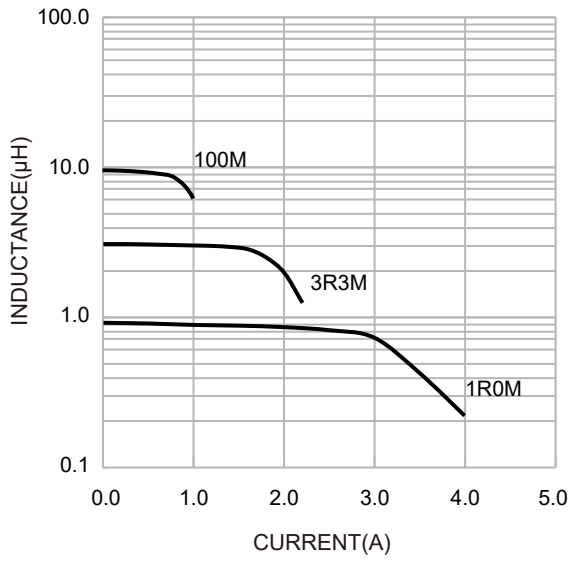
Operating temperature : -40°C ~ +125°C

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

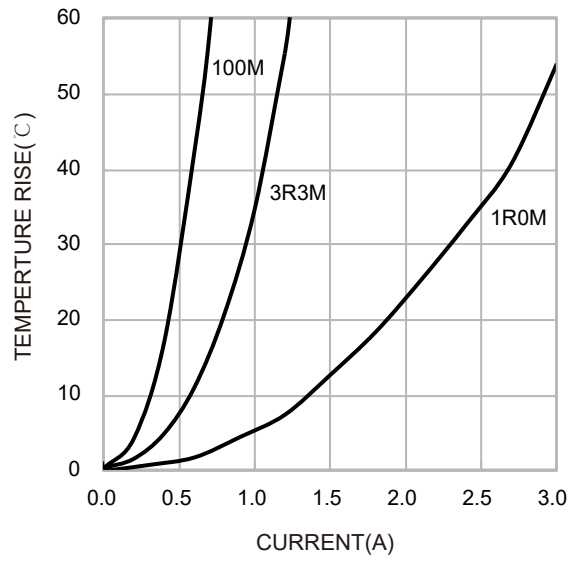
Saturation Current that will cause initial inductance to drop approximately 30%

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperture Rise VS. Current Characteristics:



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