

**NRSE Series**  
**SMD Shielded Tiny Power Inductor**  
**Size 6028**



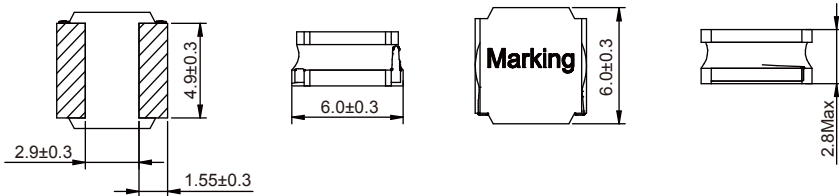
**CHARACTERISTICS**

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

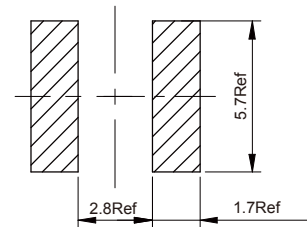
**APPLICATION**

- DC/DC converter
- LC filter

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

Part No	Inductance (µH)	Tolerance	Saturation current (A)	Temperature Rise Current (A)	DCR ±30% (mΩ)
NRSE6028-1R0N	1.0	±30%	6.7	4.6	12
NRSE6028-1R2N	1.2	±30%	6.5	4.3	16
NRSE6028-1R5N	1.5	±30%	6.0	4.3	16
NRSE6028-1R8N	1.8	±30%	5.3	4.1	19
NRSE6028-2R2N	2.2	±30%	5.1	3.75	20
NRSE6028-3R3N	3.3	±30%	3.63	3.4	25
NRSE6028-4R7N	4.7	±30%	3.0	3.0	33
NRSE6028-5R6N	5.6	±30%	2.8	2.45	45
NRSE6028-6R8M	6.8	±20%	2.6	2.4	56
NRSE6028-8R2M	8.2	±20%	2.4	2.25	68
NRSE6028-100M	10	±20%	2.05	1.9	78
NRSE6028-120M	12	±20%	1.8	1.7	88
NRSE6028-150M	15	±20%	1.75	1.5	125
NRSE6028-180M	18	±20%	1.55	1.45	130
NRSE6028-220M	22	±20%	1.45	1.4	140
NRSE6028-270M	27	±20%	1.4	1.3	180
NRSE6028-330M	33	±20%	1.35	1.1	220

Part No	Inductance (μH)	Tolerance	Saturation current (A)	Temperature Rise Current (A)	DCR ±30% (mΩ)
NRSE6028-390M	39	±20%	1.25	1.1	225
NRSE6028-470M	47	±20%	1.15	1.05	280
NRSE6028-680M	68	±20%	0.95	0.85	420
NRSE6028-820M	82	±20%	0.8	0.7	550
NRSE6028-101M	100	±20%	0.65	0.6	670
NRSE6028-121M	120	±20%	0.62	0.58	820

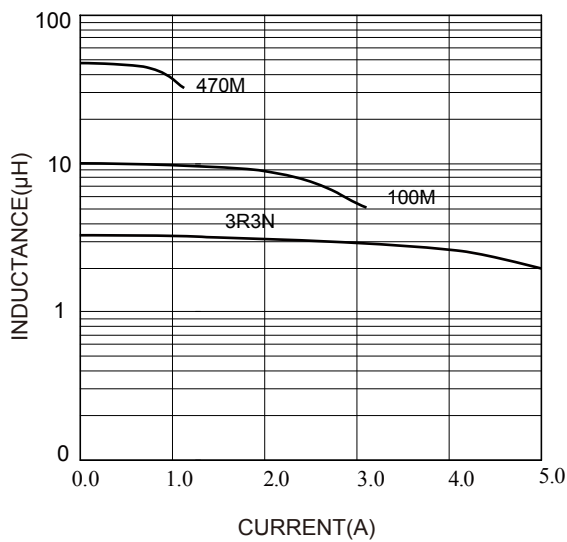
Operating temperature : -40°C ~ +125°C

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

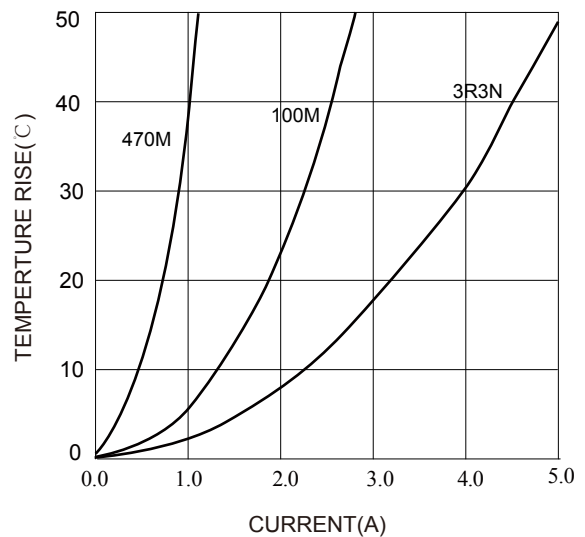
Saturation Current that will cause initial inductance to drop approximately 30%

### Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:



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