

**NRSM Series**

**Wire Wound SMD Power Inductor  
Size 3020**



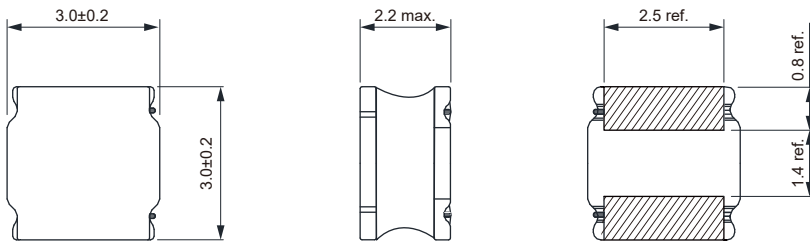
**FEATUERS**

- Magnetic resin for higher current and semi-magnetically shielded
- Operating temperature: -40 to +125 °C (including-self-temperature rise)
- Quantity: 3000pcs

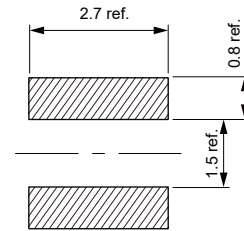
**APPLICATION**

- DC/DC converter
- LC filter

**Dimensions: [mm]**



**Land Pattern: [mm]**



**Electrical Properties:**

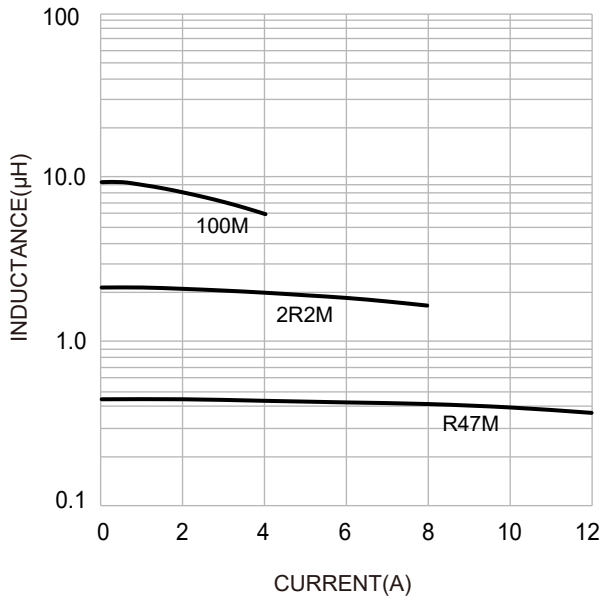
Part No	Inductance @ 1MHz/1V (μH)	Tolerance	Temperature Rise Current Typ. (A)	Temperature Rise Current Max. (A)	Saturation Current Typ. (A)	Saturation Current Max. (A)	DC Resistance Typ. (Ω)	DC Resistance Max. (Ω)
NRSM3020S-R24M	0.24	±20%	7.1	6.0	14.5	12.5	0.016	0.020
NRSM3020S-R47M	0.47	±20%	7.0	5.8	12.5	11.0	0.019	0.024
NRSM3020S-1R0M	1.00	±20%	5.2	4.5	10.0	8.00	0.036	0.045
NRSM3020S-2R2M	2.20	±20%	3.0	2.5	6.00	5.30	0.068	0.090
NRSM3020S-3R3M	3.30	±20%	2.8	2.3	5.50	4.60	0.099	0.128

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

Temperature Rise Current: For max value, ΔT < 40 °C ; For Typ value, ΔT is approximate 40 °C .

Typical Electrical Characteristics:

Inductance VS. Current Characteristics:



Temperature Rise VS. Current Characteristics:

