



Description

- Small and very Thin inductor
- Magnetic-resin shielded construction reduces buzz noise to ultra-low levels
- Operating temperature: -40°C ~ +125°C.
- RoHS compliant
- Takes up less PCB real estate and save more power



Applications

- Automotive systems
- Notebooks, desktop computers, servers, graphic cards
- VR, AR, LED lighting.

Product Identification

<u>GXNR</u>	<u>3015S</u>	<u>xxx</u>	<u>M(N)</u>	<u>T</u>
①	②	③	④	

① Series name

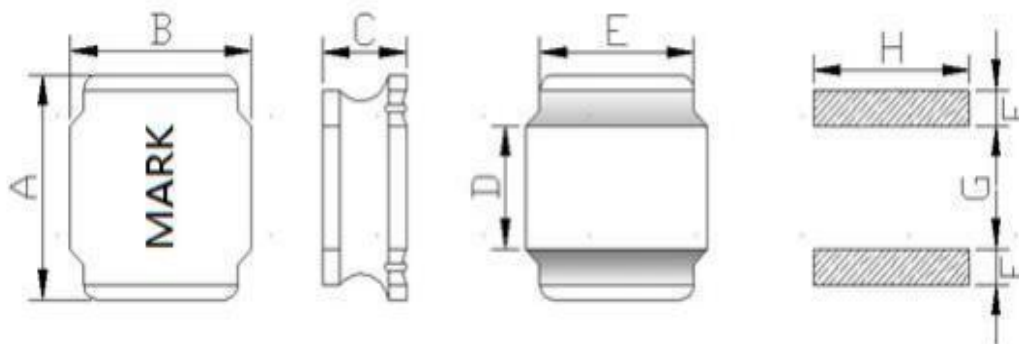
② Dimensions

③ Inductance Value

④ Inductance Tolerance (M= ± 20%; N= ± 30%)

Dimensions-mm

SMD Power Inductors



Series	A	B	C	D	E	F	G	I
GXNR3015S	3.0±0.2	3.0±0.2	1.5 Max	1.5±0.2	2.5 Ref	0.8 Ref	1.5 Ref	2.7 Ref

Electrical Characteristics

Part Number	Inductance	DC Resistance	Saturation Current	Heating Rating Current
	L (uH)	DCR(mΩ)	A	A
	100kHz,0.3V	Max	Max	Max
GXNR3015S-1R0-NT	1.0 ± 30 %	39.0	2.32	1.80
GXNR3015S-2R2-NT	2.2 ± 30 %	60.0	1.60	1.28
GXNR3015S-3R3-MT	3.3 ± 20 %	80.0	1.32	1.06
GXNR3015S-4R7-MT	4.7 ± 20 %	125.0	1.10	0.88
GXNR3015S-6R8-MT	6.8 ± 20 %	200.0	0.85	0.82
GXNR3015S-8R2-MT	8.2 ± 20 %	297.0	0.80	0.77
GXNR3015S-100-MT	10 ± 20 %	325.0	0.77	0.72
GXNR3015S-150-MT	15 ± 20 %	350.0	0.66	0.53
GXNR3015S-220-MT	22 ± 20 %	460.0	0.52	0.52
GXNR3015S-330-MT	33 ± 20 %	820.0	0.44	0.42
GXNR3015S-470-MT	47 ± 20 %	1250.0	0.35	0.28

Notes:

1. All test data is referenced to 25 °C ambient
2. Operating temperature range - 40°C to + 125 °C
3. I_{dc}(A):DC current (A) that will cause an approximate ΔT of 40 °C
4. I_{sat}(A):DC current (A) that will cause L₀ to drop approximately 30 %
5. The part temperature (ambient + temp rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.