






**SPECIFICATION FOR APPROVAL**

DESCRIPTION: Small and very Thin inductor  
 SPECIFICATION: \_\_\_\_\_  
 PART NO: FNR3015 Series  
 ISSUE DATE: \_\_\_\_\_

<b>MANUFACTURER APPROVAL</b>		
<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>
		

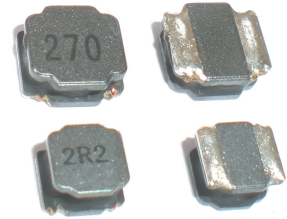
<b>CUSTOMER APPROVAL</b>		
<b>PREPARED</b>	<b>CHECKED</b>	<b>APPROVED</b>

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## ● FEATURES 特性

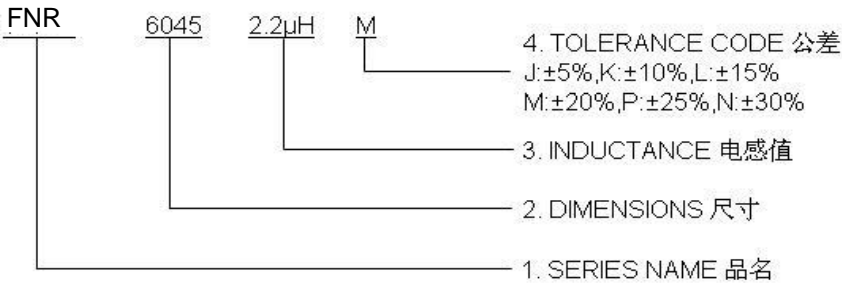
1. Small and very Thin inductor 小型,超薄电感器
2. Magnetic-resin shielded construction reduces buzz noise to ultra-low levels  
磁性胶水涂敷结构极大减少了蜂鸣声
3. Takes up less PCB real estate and save more power 省空间,更省电



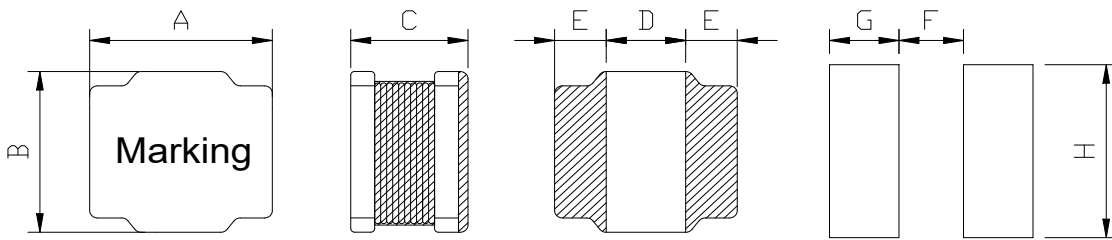
## ● APPLICATIONS 用途

1. LED Lighting LED 照明
2. Automotive systems 汽车产品
3. Notebooks,desktop computers,servers,graphic cards 笔记本电脑,台式电脑,服务器,显卡

## ● PART NUMBERING SYSTEM 品名系统



## ● SHAPES AND DIMENSIONS 外形尺寸 (Unit:mm)



Recommended patterns

TYPE(型号)	A	B	C	D	E	F	G	H
FNR201610	2.0±0.25	1.6±0.25	1.02 Max.	0.6±0.2	0.77±0.2	0.60	0.80	1.8
FNR252010	2.5±0.25	2.0±0.25	1.02 Max.	0.8±0.3	0.9±0.3	0.60	1.10	2.0
FNR252012	2.5±0.25	2.0±0.25	1.25 Max.	0.8±0.3	0.9±0.3	0.60	1.10	2.0
FNR3010	3.0±0.2	3.0±0.2	1.0±0.1	1.2±0.3	0.9±0.3	1.1	1.0	2.7
FNR3012	3.0±0.2	3.0±0.2	1.3Max	1.2±0.3	0.9±0.3	1.1	1.0	2.7
FNR3015	3.0±0.2	3.0±0.2	1.7Max	1.2±0.3	0.9±0.3	1.1	1.0	2.7
FNR4012	4.0±0.2	4.0±0.2	1.2Max	1.6±0.3	1.2±0.3	1.4	1.3	3.7
FNR4018	4.0±0.2	4.0±0.2	1.8Max	1.6±0.3	1.2±0.3	1.4	1.3	3.7
FNR4020	4.0±0.2	4.0±0.2	2.0Max	1.6±0.3	1.2±0.3	1.4	1.3	3.7
FNR4030	4.0±0.2	4.0±0.2	3.0Max	1.3±0.3	1.35±0.3	1.2	1.40	3.7
FNR5020	5.0±0.2	5.0±0.2	2.1Max	1.4±0.3	1.8±0.3	1.2	1.9	4.2
FNR5040	5.0±0.2	5.0±0.2	4.0Max	1.6±0.3	1.7±0.3	1.4	1.8	4.2
FNR6020	6.0±0.3	6.0±0.3	2.1Max	2.3±0.3	1.85±0.3	2.4	1.8	5.7
FNR6028	6.0±0.3	6.0±0.3	3.0Max	2.3±0.3	1.85±0.3	2.4	1.8	5.7
FNR6045	6.0±0.3	6.0±0.3	4.7Max	2.3±0.3	1.85±0.3	2.4	1.8	5.7
FNR8040	8.0±0.3	8.0±0.3	4.2Max	3.8±0.3	2.1±0.3	3.6	2.2	7.5

SPEC. NO.

PS-2023-012

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## ● SPECIFICATION TABLE:

PART NUMBER 品名	INDUCTANCE ( $\mu$ H) 电感值	DCR ( $\pm$ 30%) ( $\Omega$ ) 直流电阻	Isat (Max.) (A) 饱和电流	Irms (Max.) (A) 额定电流	S.R.F.(Min.) (MHz) 自谐频率
FNR3015-1.0uH/N	1.0 $\pm$ 30%	0.039	2.32	2.35	150
FNR3015-1.2uH/N	1.2 $\pm$ 30%	0.040	2.21	1.95	110
FNR3015-1.5uH/N	1.5 $\pm$ 30%	0.050	2.00	1.70	100
FNR3015-1.8uH/N	1.8 $\pm$ 30%	0.050	1.75	1.70	92
FNR3015-2.2uH/N	2.2 $\pm$ 30%	0.060	1.60	1.60	86
FNR3015-3.3uH/M	3.3 $\pm$ 20%	0.080	1.32	1.36	68
FNR3015-4.7uH/M	4.7 $\pm$ 20%	0.125	1.10	1.09	46
FNR3015-6.8uH/M	6.8 $\pm$ 20%	0.200	0.85	0.85	39
FNR3015-10uH/M	10 $\pm$ 20%	0.250	0.72	0.77	41
FNR3015-12uH/M	12 $\pm$ 20%	0.320	0.70	0.68	32
FNR3015-15uH/M	15 $\pm$ 20%	0.350	0.66	0.65	30
FNR3015-18uH/M	18 $\pm$ 20%	0.430	0.56	0.59	23
FNR3015-22uH/M	22 $\pm$ 20%	0.460	0.52	0.57	23
FNR3015-33uH/M	33 $\pm$ 20%	0.820	0.44	0.43	20
FNR3015-47uH/M	47 $\pm$ 20%	1.250	0.35	0.35	14

Remark: 1. Inductance Tested at 100kHz, 1Vrms (20°C)

2. Isat: DC current at which the inductance drops approximate 30% from its value without current;

3. Irms: DC current that causes the temperature rise ( $\Delta T = 40^\circ\text{C}$ ) from 25°C ambient.

4. Operating Temperature : -25°C ~ +125°C

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