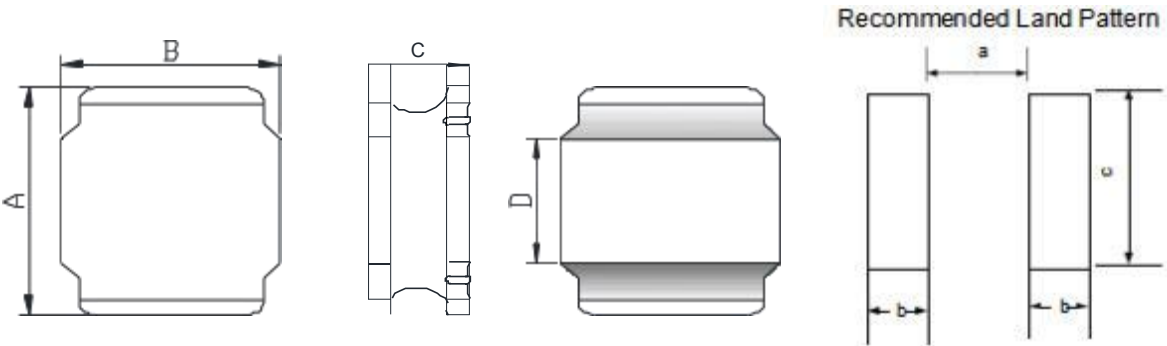


2. CONFIGURATION & DIMENSIONS 结构和外形尺寸

Unit: mm



		<table><tr><th>Size</th><th>Range</th></tr><tr><td>A</td><td>3.0±0.2</td></tr><tr><td>B</td><td>3.0±0.2</td></tr><tr><td>C</td><td>1.5MAX</td></tr><tr><td>D</td><td>1.5typ</td></tr></table>	Size	Range	A	3.0±0.2	B	3.0±0.2	C	1.5MAX	D	1.5typ	<table><tr><th>Size</th><th>Typ</th></tr><tr><td>a</td><td>1.5</td></tr><tr><td>b</td><td>0.8</td></tr><tr><td>c</td><td>2.7</td></tr></table>	Size	Typ	a	1.5	b	0.8	c	2.7
Size	Range																				
A	3.0±0.2																				
B	3.0±0.2																				
C	1.5MAX																				
D	1.5typ																				
Size	Typ																				
a	1.5																				
b	0.8																				
c	2.7																				
Size	Range																				
长	2.3±0.2mm																				
宽	1.0±0.2mm																				

3. BILL OF MATERIE 主要物料清单

NO	物料名称	物料型号	备注
1	CORE	JN4H DR3×3× 1.35 (SH) B=1.35 F=0.55 T=0.18	十二边型
2		DF351 DRS3.0*3.0*1.35-A-EP B1.35 F0.55	十二边型
3			
4			
5	WIRE	P180G1	同等特性材质的材料或等同材料
6	磁胶	G1010BK-4	
7	锡	108H	
8	载带	8mm 无中孔	
9	盖带	5.4mm 热封	
10	包盘	8 寸白色	

4. PRODUCT IDENTIFICATION 产品型号说明

产品编码:

FNR **3015** **S** **2R2** **M** **T**
① ② ③ ④ ⑤ ⑥

① **FNR:** Wire Wound SMD Power inductor

② **3015:**电感外形尺寸

③ **S:** 常规 (standard) 型号区分表示;

④ **2R2:**电感的 L 值为 2.2uH

⑤ **M:** 电感值公差范围为 $\pm 20\%$;

⑥ **T:**包装方式为编带。

5. SPECIFICATIONS 规格参数

Part Number	Inductance*1	DC Resistance*3	Saturation Current*4	Heat Rating Current*5
	@100kHz,1V	Max.	Max.	Max
Units	μH	Ω	A	A
Symbol	L	DCR	Isat	Irms
FNR3015S2R2MT	2.2 $\pm 20\%$	0.078	1.6	1.6

1 All test data is referenced to 25°C ambient;

② Test instrument: UC1068B, UC2836A, UCE1620, ZX5512B or equivalent;

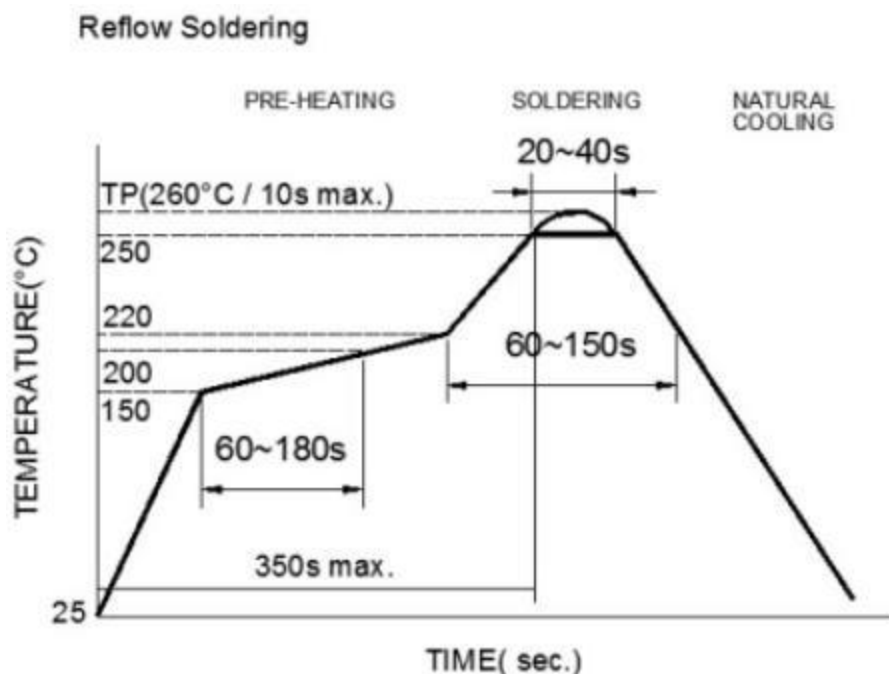
3 Rated current: Isat or Irms, whichever is smaller;

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

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

6.SOLDERING REFLOW 回流焊参数

Recommended temperature profiles for re-flow soldering in Figure below



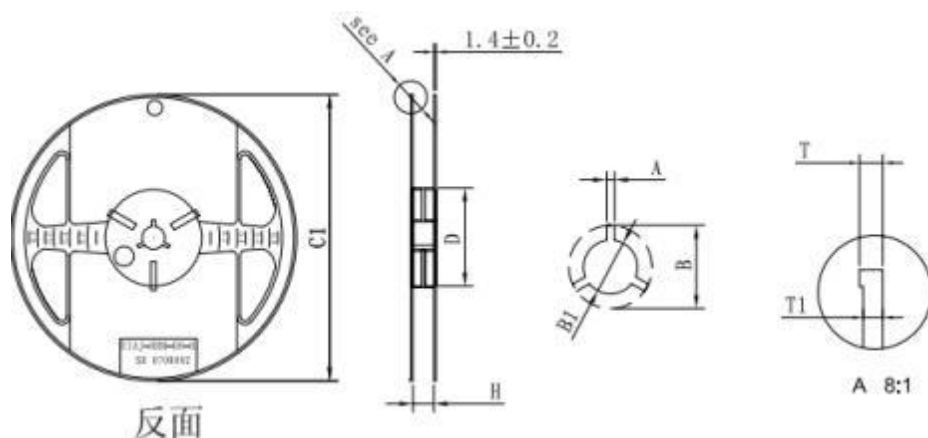
7. PRODUCTS STORAGE AND CAUTION 存储及使用注意事项

Storage Conditions To maintain the solderability of terminal electrodes:

1. Temperature and humidity conditions: 5~ 26°C and 20%-70% RH;
2. Recommended products should be used within 6 months form the time of delivery;
3. The packaging material should be kept where no chlorine or sulfur exists in the air ;
4. Do not keep products in unsuitable storage conditions, such as areas susceptible to high temperatures, high humidity, dust or corrosion.
5. Circuit design, component placement, PCB size and thickness, cooling system and etc, all will affect the product temperature. Please verify the product temperature in the final application;
6. Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering;
7. This products itself does not have any protective function in abnormal condition, such as overload, short-circuit, open-circuit conditions, etc. Therefore, it shall be confirmed that there is no risk of smoke, fire, dielectric withstand voltage, insulation resistance, etc., or use in abnormal conditions protective devices protection circuit in the end product;
8. Hi-Pot test with higher voltage than spec value will damage insulating material and shorten its life;
9. Refrain from rinsing coils. If necessary, please consult with us;

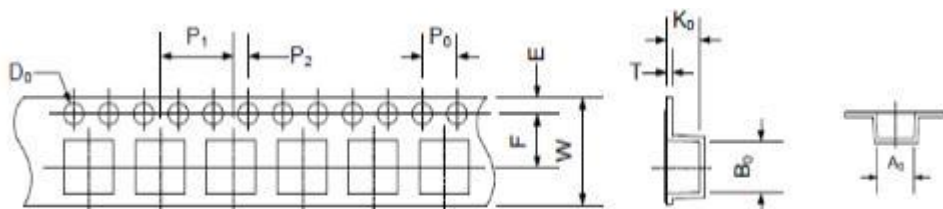
8.PACKAGE INFORMATION 包装信息(Unit: mm)

8.1 Reel Dimension 包盘尺寸:



SPEC	C1	H	A	B	
8mm	178±3.0	8.8±0.5	2.2±0.3	24±0.5	
	B1	T	D		
	13.5±0.3	1.2±0.2	60±0.5		

8.2 Tape Dimension 载带尺寸



W	A0	B0	K0	E	F	P1	P2	P0	D0	T
8.0±0.3	3.2±0.1	3.2±0.1	1.9±0.1	1.75±0.1	5.5±0.1	4.0±0.1	2.0±0.1	4.0±0.1	1.5±0.1	0.35±0.05

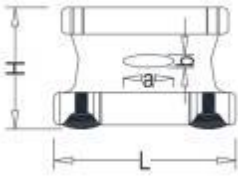
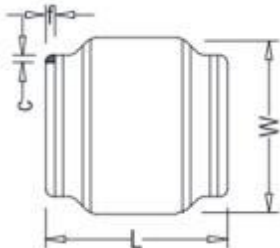
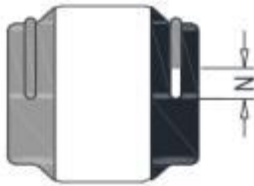
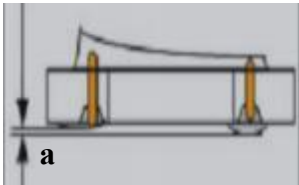
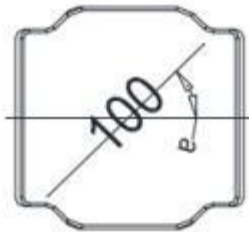
8.3 Packing and standard 封带方式和标准:

Packing 封带方式	Lettering direction 印字方向	Tape peel force (N) 盖带剥离力(牛)	Number of front empty tapes 前空带数量 (pcs)	Number of empty tape after 后空带数量(pcs)
热封	尾字对孔	0.1-1.0	55PCS	115PCS

8.4 Carton dimensions and packing quantity 封箱方式和数量

Product Series 产品系列	Quantity / Reel 每盘数量(PCS)	Inner Carton Quantity 内盒包装数量(PCS)	Out Carton Quantity 外箱包装数量(PCS)
3015	2000	20000	80000

9.Product appearance standard 产品外观标准

序号	Defect item 缺陷项目	Defect Figure 缺陷图示	Defect release standard 缺陷放行标准	sampling standard 抽样标准
1	Coil short of epoxy glue 线圈缺胶		缺胶位置长 $a \leq 1/3L$ 且宽 $b \leq 1/3H$	AQL=0.65
2	Core lack 磁芯崩缺		2520/30 系列磁芯崩缺长 $C \leq 0.6\text{mm}$ 且宽 $f \leq 0.6\text{mm}$; 40/50/60/80 系列磁芯崩缺长 $c \leq 1.0\text{mm}$ 且宽 $f \leq 1.0\text{mm}$	AQL=0.65
3	wire not welded 铜线虚焊		线圈引线端子虚焊的累计长度 50/60/80 系列 $N \leq 1.0\text{mm}$ 2520/30/40 系列 $N \leq 0.5\text{mm}$	AQL=0.65
4	terminal leveling 电极平整		产品左右电极高度差 50/60/80 系列: $a \leq 0.15\text{mm}$ 2520/30/40 系列: $a \leq 0.1\text{mm}$	AQL=0.65
5	Marking Angle deviation 印字角度偏差		印字方向偏移标准方向 $a \leq 45^\circ$	AQL=0.65
6	Epoxy redundant 胶水过多		超出产品的尺寸规格	AQL=0.65

Measure	L0A	L 1.60A		DCR(Ω)	Dimension (unit:mm)		
Item	100KHz/1V				A	B	C
SPEC	2.2uH±20%	>L0A*0.7		0.078MAX	3.0±0.2	3.0±0.2	1.5MAX
1	2.15	1.69	78.6%	0.062	2.99	2.98	1.47
2	2.18	1.83	83.9%	0.063	2.97	2.95	1.45
3	2.20	1.82	82.7%	0.062	3.00	2.99	1.44
4	2.34	1.82	77.8%	0.061	2.99	2.98	1.43
5	2.09	1.70	81.3%	0.062	2.98	2.98	1.44
6	2.15	1.87	87.0%	0.064	2.99	2.97	1.46
7	2.28	1.85	81.1%	0.061	2.98	3.00	1.45
8	2.12	1.76	83.0%	0.063	2.98	2.98	1.45
9	2.24	1.81	80.8%	0.063	3.00	3.01	1.43
10	2.07	1.71	82.6%	0.064	2.98	2.99	1.44
Average							
R							

注意事项 Note:

1.本承认书只保证我司产品作为一个单体时的质量情况，当我司产品被安装到贵司产品上时，请贵司对使用在贵司电路上的产品情况进行了有效评估和确认。

Our specification limits the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.

2.如果贵司对我司产品的使用已超过了本承认书所界定的产品功能，那么对于由此引发的失效，我司将不予保证。

If your use of our products has exceeded the product functions defined in this acknowledgement, we will not guarantee the resulting failure.

3.为保证端子电极的焊接性和包装材料处于良好状态，必须控制储存区的温度和湿度。

The temperature and humidity of the storage area must be controlled to ensure the weldability of the terminal electrode and the packaging material is in good condition.

3-1 建议储存的条件：参考规格书。

Recommended storage conditions : Reference specification.

3-2 储存时间超过 6 个月的，使用时请首先确认其焊接检验。

If the storage time is more than 6 months, please confirm its welding inspection before use.

3-3 即使在理想的储存条件下，产品的可焊性也随着时间的推移而降低。因此，产品应从交货时算起，建议 6 个月内使用完。

Even under ideal storage conditions, the weldability of the product decreases over time. Therefore, the product should be used up within 6 months from the time of delivery.

4.本承认书在客户收到 7 天之内，必须签章返回，逾期视为默认。

The specification Approval should be sent back to the supplier with customer's chop on it within 7 days after receiving it, or we will take it as approved by customer.

5.如有特殊规格要求，请事先联络我司技术部人员。

If you have any special requirements, please contact our technical staff in advance.